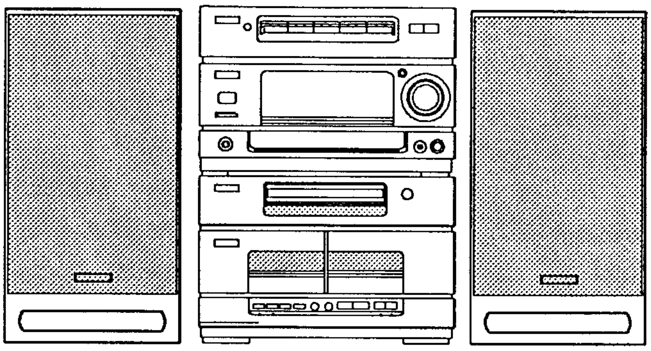
S/M Code No.0054 DATE OF ISSUE 6/1992-T

aiwa

NSX-D55

SERVICE MANUAL



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 1ZM-7
- BASIC CD MECHANISM : KSL-2101ABM
- TYPE. HE, LH, U, E, K, Z

SYSTEM	AMPLIFIER/ TUNER	CASSETTE DECK/ CD PLAYER	REMOTE CONTROLLER	SPEAKER
NSX-D55 (TYPE. HE, LH, E, K, Z)	RX-N55	FD-N55	RC-TX55	SX-N55
NSX-D55 (TYPE. U)	CUD-DN55		RC-TX55	SX-N55
	RX-N55	FD-N55		

AIWA CO.,LTD.

Tokyo Japan

Printed in Japan

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SPECIFICATIONS

STEREO RECEIVER RX-N55

<FM section>
Frequency range : 87.5 MHz to 108 MHz
Usable sensitivity (IHF) : 2.2 μ V (75 ohms) 18.2 dBf
Signal-to-noise ratio : HE, LH, U, E, K models
70 dB (STEREO), 78 dB (MONO)
Z model
64 dB (STEREO), 72 dB (MONO)
Harmonic distortion : 0.3% (MONO), 1 kHz
0.8% (STEREO), 1 kHz
Frequency response : 20 Hz to 15 kHz
(+0.5 dB, −3 dB)
Stereo separation : HE, LH, U, models
40 dB at 1 kHz
E, K, Z models
30 dB at 1 kHz
Antennas : 75 ohms (unbalanced)

<AM (MW) section>
Frequency range : HE model
531 (530) kHz to 1,602 (1,710) kHz
LH model
530 (531) kHz to 1,710 (1,602) kHz
U model
530 kHz to 1,710 kHz
E, K, Z models
531 kHz to 1,602 kHz
Usable sensitivity : 400 μ V/m
Selectivity : 22 dB (9 kHz)
Signal-to-ratio : 53 dB (100 dB input)
Antennas : Loop antenna

<LW section> (E, K, Z ONLY)
Frequency range : 144 kHz to 290 kHz
Selectivity : 1,000 μ V/m
Antennas : Loop antenna
Signal-to-noise ratio : 47 dB (106 dB input)

<Timer section>
Program timer : "Once" or "every"
Sleep timer : Capable of setting in 10-minute increments, 99 minutes maximum

<Amplifier section>
Power output : HE, LH models
50 W + 50 W (6 ohms, T.H.D. 10% 1 kHz)
U model
55 W + 55 W (6 ohms, T.H.D. 10% 1 kHz)
FTC RULE (U model only)
50 watte per channel, Min. RMS at 6 ohms, from 65 Hz to 15 kHz, with no more than 1% Total Harmonic Distortion
E, Z models
35 W + 35 W (6 ohms, T.H.D. 1% 1 kHz)
K model
45 W + 45 W (6 ohms, T.H.D. 1% 1 kHz)
35 W + 35 W (6 ohms, T.H.D. 1% 1 kHz)
Harmonic distortion : 0.05% (30 W, 1 kHz, 6 ohms)
Input terminal (load impedance) :
DAT/VIDEO1 : 300 mV (47 k ohms)
AUX/VIDEO2 : 400 mV (25 k ohms)
Signal-to-noise ratio : 84 dB

<General>
Power requirements : HE, LH models
120/220/240 V
AC switchable, 50/60 Hz
E, Z models
AC 220 V, 50 Hz
K model
AC 240 V, 50 Hz
Power consumption : HE, LH models
110 W (System total 125 W)
U model
120 W (System total 135 W)
E, K, Z models
230 W (System total 245 W)
Dimensions (W × H × D) :
260 × 169 × 323.5 mm
(10 $\frac{1}{4}$ × 6 $\frac{3}{4}$ × 12 $\frac{3}{4}$ in)
Weight : HE, LH models
5.7 kg (12.5 lbs.)
U model
5.9 kg (13 lbs)
E, K, Z models
5.6 kg (12.3 lbs.)

COMPACT DISC / STEREO CASSETTE DECK FD-N55

<Cassette deck section>
Track format : 4 tracks, 2channels
Frequency response : METAL tape : 20-17,000 Hz
CrO_2 TAPE : 20-16,000 Hz
Normal tape : 20-15,000 Hz
Signal-to-noise ratio : HE, LH models
65 dB (DOLBY NR ON, METAL tape peak level ablove 5 kHz)
U, E, K, Z models
73 dB (DOLBY C NR ON, METAL tape peak level ablove 5 kHz)
Wow and flutter : 0.16% (WRMS)
Tape speed : 4.8 cm/sec.(1 $\frac{7}{8}$ ips)
9.5 cm/sec.(double speed)
Rewind time : 120 sec.(C-60)
Fast forward time : 120 sec.(C-60)
Recording system : AC bias
Erase system : AC erase
Motor : DC servomotor
Heads : Playback head × 1 (deck 1)
Record/playback/erase head × 1 (deck 2)

<CD player section>
Disc : Compact disc
Scanning method : Non contact optical scanner (semiconductor laser application)
Laser : Semiconductor laser ($\lambda = 780$ mm)
Rotation speed : Approx. 500 rpm-200 rpm (CLV)
Approx. 1,000 rpm-400 rpm (CLV, double speed, except U, K models)
Error correction : Cross Interleave, Reed Solomon code
No. of channel : 2 channels
D-A conversion : 16-bit linear
Wow and flutter : Unmeasurable
Signal-to-noise ratio : 90 dB (1 kHz, 0 dB)
Harmonic distortion : 0.05% (1 kHz, 0 dB)
Low pass filter : 8 times digital filter + active filter
Dimensions (W × H × D) :
260 × 169 × 323.5 mm
Weight : 4 kg (8.8 lbs.)

SPEAKER SX-N55
Cabinet type : 3 way, bass reflex
Speaker : 130 mm (5 $\frac{1}{8}$in) cone type woofer
60 mm (2 $\frac{3}{8}$ in) cone type tweeter
30 mm (1 $\frac{3}{16}$ in) ceramic type super tweeter
Impedance : 6 ohm
Music power : 70 W
Output sound pressure level :
87 dB/W/m
Dimensions (W × H × D) :
210 × 338 × 237 mm
(8 $\frac{3}{8}$ × 13 $\frac{3}{8}$ × 9 $\frac{3}{8}$in)
Weight : 3.4 kg (7.5 lbs.)

<COMMON SECTION>
Dimensions (W × H × D) :
680 × 338 × 323.5 mm
(26 $\frac{7}{8}$ × 13 $\frac{3}{8}$ × 12 $\frac{3}{4}$in)
(vertical placement)
HE, LH models
940 × 159 × 3235 mm
(37 $\frac{1}{8}$ × 6 $\frac{3}{4}$ × 12 $\frac{3}{4}$in)
U, E, K, Z models
940 × 210 × 3235 mm
(37 $\frac{1}{8}$ × 8 $\frac{3}{8}$ × 12 $\frac{3}{4}$in)
(horizontal placement)
Weight : H, LH models
16.5 kg (36.3 lbs.)
U model
16.7 kg (36.7 lbs.)
E, K, Z models
16.4 kg (36.1 lbs.)

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■ ACCESSORIES／PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★81-MT3-901-019	INSTRUCTION BOOKLET, S < E, S, C > (HE, LH)	※	1
	2	★81-MT3-902-019	INSTRUCTION BOOKLET, U < S > (U)	※	1
	3	★81-MT3-903-018	INSTRUCTION BOOKLET, E < E, S, C > (E)	※	1
	4	★81-MT3-904-018	INSTRUCTION BOOKLET, E < D, F, I > (E, Z)	※	1
	5	★81-MT3-905-018	INSTRUCTION BOOKLET, K (K)	※	1
	6	★81-MT3-682-019	REMOTE CONTROLLER, RC-TN55F (HE, LH, U)	※	1
	7	★81-MT3-684-018	REMOTE CONTROLLER, RC-TN55L (E, K, Z)	※	1
	8	★81-MT3-685-019	REMOTE CONTROLLER, RC-TN55F GOLD (HE)	※	1
	9	★81-MT3-686-019	REMOTE CONTROLLER, RC-TN55L GOLD (E, K, Z)	※	1
	10	★81-MX4-659-019	AM LOOP ANT NC2 (HE, LH, U, Z)		1
	11	★81-MX4-660-010	AM LOOP ANT CON2 (E, K)		1
	12	★81-748-632-019	FEEDER, ANT FMN (HE, LH, U)		1
	13	★81-748-632-018	FEEDER, ANT FMN (E, K)		1
	14	★87-032-845-019	PLUG, CONVERSION (LH)		1
	15	★87-042-062-010	PLUG, ADAPTOR S-I6115 (HE)		1
	16	★87-043-106-010	FM, WIRE ANT < Z > (Z)		1

MODEL NO.

RX – N55

ELECTRICAL MAIN PARTS LIST

===IC===

REF. NO.	PART NO.	DESCRIPTION
	87-001-632-019	IC, BA10393N
	87-002-637-019	IC, BU4051B
	87-002-247-019	IC, BU4052B
	87-002-444-019	IC, BU4094B
	87-001-347-019	IC, HD14051BP
	87-001-942-019	IC, LA1265G
	87-001-530-019	IC, LA3607
	87-001-376-019	IC, LC7218
	81-MT3-651-010	IC, LC866012A-5181
	87-002-239-010	IC, LM3364-15
	87-002-241-010	IC, M50195P
	87-027-895-019	IC, M5218AL
	87-002-429-010	IC, NJU7305L
	87-002-727-019	IC, NJM4558L
	87-001-790-010	IC, SBX1610-52(REMOTE SENSOR)
	87-001-582-019	IC, STK4152-2(E, K, Z)
	87-020-982-019	IC, STK4162-2(HE, LH, U)
	87-020-446-019	IC, TA7343AP
	87-027-938-019	IC, TC4053BP
	87-001-869-010	IC, XR1091
	87-001-883-010	IC, XRC5424BP

===TRANSISTOR===

REF. NO.	PART NO.	DESCRIPTION
	89-502-094-019	FET, 2SK209Y
	89-502-115-010	FET, 2SK211GR
	89-502-466-019	FET, 2SK246BL
	89-503-025-010	FET, 2SK302GR
	89-113-187-019	TRANSISTOR, 2SA1318TU
	87-026-463-019	TRANSISTOR, 2SA933S(RS)
	89-213-302-019	TRANSISTOR, 2SB1330Q
	89-333-317-019	TRANSISTOR, 2SC3331TU
	87-026-462-019	TRANSISTOR, 2SC1740S(RS)
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-327-125-019	TRANSISTOR, 2SC2712GR
	89-327-143-019	TRANSISTOR, 2SC2714(O)
	89-332-665-019	TRANSISTOR, 2SC3266GR
	89-333-266-019	TRANSISTOR, 2SC3326B
	89-420-052-019	TRANSISTOR, 2SD2005Q
	89-406-555-019	TRANSISTOR, 2SD655E
	87-026-230-019	TRANSISTOR, DTA114YK
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-219-019	TRANSISTOR, DTA144ES
	87-026-245-019	TRANSISTOR, DTC114ES
	87-026-215-019	TRANSISTOR, DTC114YS
	87-026-217-019	TRANSISTOR, DTC124ES

===DIODE===

REF. NO.	PART NO.	DESCRIPTION
	87-020-691-019	DIODE, 1SS132
	87-020-125-019	DIODE, 1SS181
	87-020-027-019	DIODE, 1SS184
	87-002-225-019	DIODE, DBF40C-K10
	87-002-726-010	DIODE, DSF10TC FMG
	87-002-608-019	DIODE, DSF10TC
	87-001-820-019	DIODE, GP15B(F)
	87-002-822-019	DIODE, ZENER MTZJ2. 2A
	87-001-916-019	DIODE, ZENER UTZJ10B
	87-001-911-019	DIODE, ZENER UTZJ4. 7A
	87-001-915-019	DIODE, ZENER UTZJ6. 8A
	87-001-915-019	DIODE, ZENER UTZJ6. 8A
	87-027-675-019	DIODE, ZENER HZ33-3L
	87-027-555-019	DIODE, ZENER HZ5C2
	87-027-332-019	DIODE, ZENER HZ6B1L
	87-027-399-019	DIODE, ZENER HZ7A3L

===TUNER CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
AP1	★81-MT3-655-010	AM PACK 1, S(HE, LH, U)
C1	★87-010-312-019	CAP, CHIP S 15P-50 CH
C2	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C3	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C4	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C5	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C6	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C7	★87-010-147-019	CAP, CHIP S 3P-50 CH(Z)
C7	★87-010-150-019	CAP, CHIP S 6P-50 CH(EXCEPT Z)
C8	★87-018-102-019	CAP, CERA-SOL U 6. 8P-50 SL (EXCEPT Z)
C9	★87-010-158-019	CAP, CHIP S 22P-50 SL
C10	★87-010-154-019	CAP, CHIP S 10P-50 CH
C11	★87-010-312-019	CAP, CHIP S 15P-50 CH
C12	★87-010-312-019	CAP, CHIP S 15P-50 CH
C13	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C14	★87-010-146-019	CAP, CHIP S 2P-50 CH
C15	★87-010-145-019	CAP, CHIP S 1P-50 CH
C16	★87-010-154-019	CAP, CHIP S 10P-50 CH(EXCEPT Z)
C16	★87-010-149-019	CAP, CHIP S 5P-50 CH(Z)
C17	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C18	★87-010-170-019	CAP, CHIP S 220P-50 SL
C19	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C20	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C21	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C22	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C23	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C24	★87-010-149-019	CAP, CHIP S 5P-50 CH
C25	★87-010-197-019	CAP, CHIP S 0. 01-25 B(EXCEPT Z)
C26	★87-010-312-019	CAP, CHIP S 15P-50 CH
C27	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C30	★87-010-401-019	CAP, ELECT 1-50 SME
C31	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C32	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C33	★87-010-405-019	CAP, ELECT 10-50 SME
C34	★87-010-166-019	CAP, CHIP S 100P-50 SL
C35	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C36	★87-010-401-019	CAP, ELECT 1-50 SME
C37	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C38	★87-010-405-019	CAP, ELECT 10-50 SME
C39	★87-010-544-019	CAP, ELECT 0. 1-50
C40	★87-010-403-019	CAP, ELECT 3. 3-50 SME
C41	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C42	★87-010-404-019	CAP, ELECT 4. 7-50 SME(Z)
C43	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C45	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C46	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C47	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C48	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C49	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C50	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C51	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C52	★87-010-197-019	CAP, CHIP S 0. 01-25 B(E, K, Z)
C53	★87-010-196-019	CAP, CHIP S 0. 1-25 F
C54	★87-010-197-019	CAP, CHIP S 0. 01-25 B(E, K, Z)
C55	★87-014-049-019	CAP, PP 470P-100 J(E, K, Z)
C56	★87-010-152-019	CAP, CHIP S 8P-50 CH(HE, LH, U)
C56	★87-010-158-019	CAP, CHIP S 22P-50 SL(E, K, Z)
C57	★87-010-169-019	CAP, CHIP S 180P-50 SL(E, K. Z)
C58	★87-014-050-019	CAP, PP 510P-100 J(E, K, Z)
C60	★87-010-404-019	CAP, ELECT 4. 7-50 SME(Z)
C61	★87-010-401-019	CAP, ELECT 1-50 SME
C62	★87-010-403-019	CAP, ELECT 3. 3-50 SME
C63	★87-014-057-019	CAP, PP 1000P-100 J
C64	★87-010-405-019	CAP, ELECT 10-50 SME
C67	★87-010-179-019	CAP, CHIP S 1200P-50 B
C68	★87-010-179-019	CAP, CHIP S 1200P-50 B
C69	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C70	★87-010-400-019	CAP, ELECT 0. 47-50 SME
C71	★87-010-184-019	CAP, CHIP S 3300P-50 B
C72	★87-010-184-019	CAP, CHIP S 3300P-50 B
C73	★87-010-401-019	CAP, ELECT 1-50 SME
C74	★87-010-401-019	CAP, ELECT 1-50 SME
C75	★87-010-248-019	CAP, ELECT 220-10 SME
C76	★87-010-312-019	CAP, CHIP S 15P-50 CH
C77	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C78	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C79	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C80	★87-010-384-019	CAP, ELECT 100-25 SME
C81	★87-010-186-019	CAP, CHIP S 4700P-50 B
C82	★87-010-400-019	CAP, ELECT 0. 47-50 SME(H, U)
C82	★87-010-401-019	CAP, ELECT 1-50 SME(E, K, Z)
C83	★87-015-762-019	CAP, CHIP 68P SL
C84	★87-010-164-019	CAP, CHIP S 68P-50 SL
C85	★87-010-164-019	CAP, CHIP S 68P-50 SL
C86	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C87	★87-010-263-019	CAP, ELECT 100-10
C88	★87-010-263-019	CAP, ELECT 100-10
C89	★87-010-263-019	CAP, ELECT 100-10
C90	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C100	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C101	★87-010-197-019	CAP, CHIP S 0. 01-25 B
C102	★87-010-311-019	CAP, CHIP S 12P-50 CH(E, K, Z)
C103	★87-010-197-019	CAP, CHIP S 0. 01-25 B(E, K)
C103	★87-010-311-019	CAP, CHIP S 12P-50 CH(Z)
C105	★87-010-146-019	CAP, CHIP S 2P-50 CH(Z)
C106	★87-010-148-019	CAP, CHIP S 4P-50 CH(Z)
D1	★87-026-360-010	VARICAP, CHIP KV1430
D2	★87-026-360-010	VARICAP, CHIP KV1430
D3	★87-026-360-010	VARICAP, CHIP KV1430
D6	★81-754-634-010	VARICAP, KV1260(E, K, Z)
D7	★87-026-360-010	VARICAP, CHIP KV1430(Z)
CF1	★87-030-105-010	FILTER, BPMB6A(Z)
CF2	★82-799-621-010	FILTER, CERAMIC MS2-A(Z)
CF3	★87-008-261-019	FILTER, SFE10. 7MA5-A
CF4	★87-008-261-019	FILTER, SFE10. 7MA5-A
CF5	★82-794-670-019	BFU 450C4N
J1	★81-631-646-019	ANT TERM 2P PAL(ANTENNA)(E, K, Z)
J1	★81-760-694-019	PUSH TERMINAL 4P(ANTENNA) (HE, LH, U)
J2	81-754-629-019	CONNECTOR XH M 2P (UL) (MW/LW LOOP)(E, K)
L1	★87-006-209-019	COIL. ANT FM 3/4 T
L2	★87-006-210-019	COIL, ANT FM 2 3/4T
L3	★87-006-200-019	COIL, RF FM 3-1/2T, L5
L4	★87-006-201-019	COIL, RF FM3-1/2TS, L5
L5	★87-006-201-019	COIL, RF FM3-1/2TS, L5(Z)
L6	★87-006-205-019	COIL, OSC FM (7K)
L7	★87-003-231-019	COIL, CHIP S 1UH
L8	★87-008-427-019	COIL, FM IFT (4T)
L9	★81-631-611-019	COIL, QUAD (SINGLE)
L11	★87-008-452-019	FILTER, CFAZ-450
L12	★87-006-207-019	COIL, ANT MW (3B)(E, K, Z)
L13	★87-006-208-019	COIL, ANT LW(E, K, Z)
L14	★82-794-687-019	COIL, OSC(E, K, Z)
L15	★81-631-643-010	COIL, 1 POLE MPX(Z)
L15	★81-631-643-019	COIL, 1 POLE MPX(HE, LH, U, E, K)
L16	★81-631-643-010	COIL, 1 POLE MPX(Z)
L16	★81-631-643-019	COIL, 1 POLE MPX(HE, LH, U, E, K)
L17	★82-794-688-019	COIL, OSC LW(E, K, Z)
L18	★87-008-421-019	COIL, FILTER AMTI-BIRDIE(Z)
L19	★87-003-098-019	COIL, 2. 2UH
SFR1	★87-024-174-019	SFR, 33K
SFR2	★87-024-171-019	SFR, 4. 7K
TC1	★87-011-219-019	CAP, TRIMMER 10P
TC2	★87-011-219-019	CAP, TRIMMER 10P
TC3	★87-011-219-019	CAP, TRIMMER 10P(Z)
TC4	★87-011-220-019	CAP, TRIMMER 20P(E, K, Z)
TC5	★87-011-221-019	CAP, TRIMMER 30P
TC6	★87-011-221-019	CAP, TRIMMER 30P(E, K, Z)
X1	★87-030-163-019	VIB, XTAL 7. 2MHZ(NDK)

===RELAY CIRCUIT BOARD SECTION===

===MAIN CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C301	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C302	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C303	★87-010-405-019	CAP, ELECT 10-50 SME
C304	★87-010-405-019	CAP, ELECT 10-50 SME
C305	★87-010-374-019	CAP, ELECT 47-10
C306	★87-010-374-019	CAP, ELECT 47-10
C307	★87-010-260-019	CAP, ELECT 47-25 SME
C308	★87-010-260-019	CAP, ELECT 47-25 SME
C309	★87-018-111-019	CAP, CERA-SOL U 27P-50 SL
C310	★87-018-111-019	CAP, CERA-SOL U 27P-50 SL
C311	★87-018-214-019	CAP, CERA-SOL U 0. 1-50 F
C312	★87-018-214-019	CAP, CERA-SOL U 0. 1-50 F
C315	★87-010-408-019	CAP, ELECT 47-50 SME
C316	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C317	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C318	★87-010-544-019	CAP, ELECT 0. 1-50(EXCEPT U)
C319	★87-010-401-019	CAP, ELECT 1-50 SME(EXCEPT U)
C320	★87-010-400-019	CAP, ELECT 0. 47-50(EXCEPT U)
C321	★87-010-403-019	CAP, ELECT 3. 3-50 SME(EXCEPT U)
C322	★87-010-403-019	CAP, ELECT 3. 3-50 SME(EXCEPT U)
C323	★87-010-402-019	CAP, ELECT 2. 2-50 SME
C324	★87-010-402-019	CAP, ELECT 2. 2-50 SME
C325	★87-010-401-019	CAP, ELECT 1-50 SME
C326	★87-010-401-019	CAP, ELECT 1-50 SME
C327	★87-016-096-010	CAP, ELECT 47-16 FX
C328	★87-016-096-010	CAP, ELECT 47-16 FX
C329	★87-016-072-010	CAP, ELECT 0. 47-50 FX
C330	★87-016-072-010	CAP, ELECT 0. 47-50 FX
C331	★87-016-072-010	CAP, ELECT 0. 47-50 FX
C332	★87-016-072-010	CAP, ELECT 0. 47-50 FX
C333	★87-010-401-019	CAP, ELECT 1-50 SME
C334	★87-010-401-019	CAP, ELECT 1-50 SME
C335	★87-010-401-019	CAP, ELECT 1-50 SME
C336	★87-010-401-019	CAP, ELECT 1-50 SME
C337	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y

REF. NO.	PART NO.	DESCRIPTION
C338	★87-010-405-019	CAP, ELECT 10-50 SME
C350	★87-010-403-019	CAP, ELECT 3.3-50 SME
C351	★87-010-374-019	CAP, ELECT 47-10
C352	★87-010-453-010	CAP, ELECT 4700-25 SME(EXCEPT U)
C352	★87-010-390-019	CAP ELECT 3300-25 SME(U)
C353	★87-010-405-019	CAP, ELECT 10-50 SME
C354	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C355	★87-010-260-019	CAP, ELECT 47-25 SME
C356	★87-010-408-019	CAP, ELECT 47-50 SME
C357	★87-010-260-010	CAP, ELECT 47-25 SME(HE, LH, U)
C357	★87-010-382-019	CAP, ELECT 22-25 SME(E, K, Z)
C358	★87-010-766-019	CAP, ELECT 330-63
C363	★87-010-101-019	CAP, ELECT 220-16 SME
C370	★87-010-374-019	CAP, ELECT 47-10
C371	★87-010-221-019	CAP, ELECT 470-10
C372	★87-010-263-019	CAP, ELECT 100-10
C373	★87-010-404-019	CAP, ELECT 4.7-50 SME
C374	★87-010-404-019	CAP, ELECT 4.7-50 SME
C376	★87-010-405-019	CAP, ELECT 10-50 SME
C379	★87-010-382-019	CAP, ELECT 22-25 SME
C380	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C381	★81-794-643-019	CAP, ELECT 4700-50 SME(HE, LH, U)
C381	★87-016-055-019	CAP, ELECT 3300-42(E, K, Z)
C382	★81-794-643-019	CAP, ELECT 4700-50 SME(HE, LH, U)
C382	★87-016-055-019	CAP, ELECT 3300-42(E, K, Z)
C385	★87-010-263-019	CAP, ELECT 100-10
C386	★87-010-381-019	CAP, ELECT 330-16 SME
C387	★87-010-381-019	CAP, ELECT 330-16 SME
C388	★87-010-405-019	CAP, ELECT 10-50 SME
C391	★87-010-405-019	CAP, ELECT 10-50 SME
C392	★87-010-405-019	CAP, ELECT 10-50 SME
C393	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C394	★87-010-260-019	CAP, ELECT 47-25 SME
C395	★87-010-260-019	CAP, ELECT 47-25 SME
C396	★87-018-211-019	CAP, CERA-SOL U 0.01-50(Z)
C397	★87-018-211-019	CAP, CERA-SOL U 0.01-50(Z)
C401	★87-010-405-019	CAP, ELECT 10-50 SME
C402	★87-010-405-019	CAP, ELECT 10-50 SME
C403	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C404	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C408	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C409	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C410	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C411	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C412	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C415	★87-010-404-019	CAP, ELECT 4.7-50 SME
C416	★87-010-404-019	CAP, ELECT 4.7-50 SME
C417	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C533	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C534	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
L319	★87-005-366-019	COIL, 1UH(Z)
L320	★87-005-366-019	COIL, 1UH(Z)
J1	★80-MT3-618-019	JACK, PIN 3P EARTH(DAT/VIDEO1 IN)
J2	★80-MT3-617-019	JACK, PIN 3P(VIDEO2 IN)
J3	★80-MT3-617-019	JACK, PIN 3P(MONITOR OUT)
J4	★80-MT3-616-019	JACK, PIN 2P(SURROUND SPEAKERS)
J5	80-MT3-615-019	JACK, 6.3(PHONES)
J7	★87-033-215-019	TERMINAL SP 4P R (*)(SPEAKERS)
R321	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R322	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R323	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R324	★87-022-050-019	RES, METAL 1W-0.22J(EXCEPT U)
R389	★87-022-050-019	RES, METAL 1W-0.22J
R390	★87-022-050-019	RES, METAL 1W-0.22J
RY1	★87-045-335-010	RELAY, G5Z-2A 12VDC
VR302	★81-MT3-631-019	VR, 50KBX2(DAT/VIDEO1 INPUT LEVEL)

REF. NO.	PART NO.	DESCRIPTION

===FRONT CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C51	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C52	★87-018-104-019	CAP, CERA-SOL U 10P-50 SL
C53	★87-010-405-019	CAP, ELECT 10-50 SME
C54	★87-010-402-019	CAP, ELECT 2.2-50 SME
C56	★87-010-075-019	CAP, ELECT 10-16 5L
C81	★87-010-405-019	CAP, ELECT 10-50 SME
C101	★87-010-415-019	CAP, ELECT 10-50 SRE
C102	★87-010-405-019	CAP, ELECT 10-50 SME
C103	★87-010-405-019	CAP, ELECT 10-50 SME
C110	★87-018-101-019	CAP, CERA-SOL U 5.6P-50 SL
C111	★87-010-405-019	CAP, ELECT 10-50 SME
C112	★87-010-263-019	CAP, ELECT 100-10
C114	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F
C115	★87-010-401-019	CAP, ELECT 1-50 SME
C130	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C140	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C201	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X
C202	★87-010-404-019	CAP, ELECT 4.7-50 SME
C203	★87-018-128-019	CAP, CERA-SOL U 560P-50 B
C205	★87-010-405-019	CAP, ELECT 10-50 SME
C207	★87-010-546-019	CAP, ELECT 0.33-50 SME
C208	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C210	★87-010-405-019	CAP, ELECT 10-50 SME
CSA100	★87-030-264-010	CERA LOCK(MU)12.0MHZ
D91	87-020-862-010	LED, SEL-2213C(TAPE/DECK1/2)
D92	87-020-862-010	LED, SEL-2213C(TUNER/BAND)
D93	87-020-862-010	LED, SEL-2213C(CD)
D94	87-020-862-010	LED, SEL-2213C(DAT/VIDEO1)
D95	87-020-862-010	LED, SEL-2213C(VIDEO2)
D96	89-VW5-606-019	LED, SLH-38MC, 70F-90(▼DOWN)
D97	89-VW5-606-019	LED, SLH-38MC, 70F-90(▲UP)
FL101	81-MT3-652-010	FL, BJ032GK(DISPLAY)
J201	81-MX4-630-019	JACK, 3.5(MIC)
L10	★87-003-098-019	COIL, 2.2UH
L51	★87-003-154-019	COIL, 220UH
L55	★87-003-154-019	COIL, 220UH
L101	★87-003-152-019	COIL, 100UH
L112	★87-003-102-019	COIL, 10UH
L130	★87-003-098-019	COIL, 2.2UH
L131	★87-003-098-019	COIL, 2.2UH
L132	★87-003-098-019	COIL, 2.2UH
L133	★87-003-098-019	COIL, 2.2UH
L141	★87-003-098-019	COIL, 2.2UH
L142	★87-003-098-019	COIL, 2.2UH
L143	★87-003-098-019	COIL, 2.2UH
⚠R83	87-029-366-019	RES, FUSE 4.7-1/2W
SW150	87-036-215-019	TACT SW(DEMO) (HE, LH, U)
SW150	87-036-259-018	TACT SW(DEMO) (E, K, Z)
SW151	87-036-215-019	TACT SW(POWER) (HE, LH, U)
SW151	87-036-259-018	TACT SW(POWER) (E, K, Z)
SW152	87-036-215-019	TACT SW(OPEN/CLOSE) (HE, LH, U)
SW152	87-036-259-018	TACT SW(OPEN/CLOSE) (E, K, Z)
SW153	87-036-215-019	TACT SW(TAPE/DECK1/2) (HE, LH, U)
SW153	87-036-259-018	TACT SW(TAPE/DECK1/2) (E, K, Z)
SW154	87-036-215-019	TACT SW(TUNER/BAND) (HE, LH, U)
SW154	87-036-259-018	TACT SW(TUNER/BAND) (E, K, Z)
SW155	87-036-215-019	TACT SW(CD) (HE, LH, U)
SW155	87-036-259-018	TACT SW(CD) (E, K, Z)
SW156	87-036-215-019	TACT SW(DAT/VIDEO1) (HE, LH, U)
SW156	87-036-259-018	TACT SW(DAT/VIDEO1) (E, K, Z)
SW157	87-036-215-019	TACT SW(VIDEO2) (HE, LH, U)
SW157	87-036-259-018	TACT SW(VIDEO2) (E, K, Z)
SW158	87-036-215-019	TACT SW(▼DOWN) (HE, LH, U)
SW158	87-036-259-018	TACT SW(▼DOWN) (E, K, Z)
SW159	87-036-215-019	TACT SW(▲UP) (HE, LH, U)
SW159	87-036-259-018	TACT SW(▲UP) (E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
VR201	★81-MT3-632-019	VR, 10KB(DIGITAL ECHO)(HE)
VR202	★81-MT3-633-019	VR, 10KA(MIC MIXING)

===TRAY CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C190	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C191	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C192	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C193	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
SW1	87-036-215-019	TACT SW(1/ROCK)(HE, LH, U)
SW1	87-036-259-018	TACT SW(1/ROCK)(E, K, Z)
SW2	87-036-215-019	TACT SW(2/POPS)(HE, LH, U)
SW2	87-036-259-018	TACT SW(2/POPS)(E, K, Z)
SW3	87-036-215-019	TACT SW(3/CLASSIC)(HE, LH, U)
SW3	87-036-259-018	TACT SW(3/CLASSIC)(E, K, Z)
SW4	87-036-215-019	TACT SW(4/HS)(HE, LH, U)
SW4	87-036-259-018	TACT SW(4/HS)(E, K, Z)
SW5	87-036-215-019	TACT SW(5/CAR)(HE, LH, U)
SW5	87-036-259-018	TACT SW(5/CAR)(E, K, Z)
SW6	87-036-215-019	TACT SW(MEMORY)(HE, LH, U)
SW6	87-036-259-018	TACT SW(MEMORY)(E, K, Z)
SW7	87-036-215-019	TACT SW(ON)(HE, LH, U)
SW7	87-036-259-018	TACT SW(ON)(E, K, Z)
SW8	87-036-215-019	TACT SW(OFF)(HE, LH, U)
SW8	87-036-259-018	TACT SW(OFF)(E, K, Z)
SW9	87-036-215-019	TACT SW(PRGM/CHECK)(HE, LH, U)
SW9	87-036-259-018	TACT SW(PRGM/CHECK)(E, K, Z)
SW10	87-036-215-019	TACT SW(RANDOM)(HE, LH, U)
SW10	87-036-259-018	TACT SW(RANDOM)(E, K, Z)
SW11	87-036-215-019	TACT SW(REPEAT/BLANK)(HE, LH, U)
SW11	87-036-259-018	TACT SW(REPEAT/BLANK)(E, K, Z)
SW12	87-036-215-019	TACT SW(AUTO/AI)(HE, LH, U)
SW12	87-036-259-018	TACT SW(AUTO/AI)(E, K, Z)
SW13	87-036-215-019	TACT SW(PRGM)(HE, LH, U)
SW13	87-036-259-018	TACT SW(PRGM)(E, K, Z)
SW14	87-036-215-019	TACT SW(CLEAR)(HE, LH, U)
SW14	87-036-259-018	TACT SW(CLEAR)(E, K, Z)
SW17	87-036-215-019	TACT SW(TIMER CHECK/TIME SET) (HE, LH, U)
SW17	87-036-259-018	TACT SW(TIMER CHECK/TIME SET) (E, K, Z)
SW18	87-036-215-019	TACT SW(SLEEP)(HE, LH, U)
SW18	87-036-259-018	TACT SW(SLEEP)(E, K, Z)
SW19	87-036-215-019	TACT SW(TUNING MODE)(HE, LH, U)
SW19	87-036-259-018	TACT SW(TUNING MODE)(E, K, Z)
SW20	87-036-215-019	TACT SW(TIMER SELECT)(HE, LH, U)
SW20	87-036-259-018	TACT SW(TIMER SELECT)(E, K, Z)
SW21	87-036-215-019	TACT SW(SET)(HE, LH, U)
SW21	87-036-259-018	TACT SW(SET)(E, K, Z)
SW22	87-036-215-019	TACT SW(▼DOWN)(HE, LH, U)
SW22	87-036-259-018	TACT SW(▼DOWN)(E, K, Z)
SW23	87-036-215-019	TACT SW(▲UP)(HE, LH, U)
SW23	87-036-259-018	TACT SW(▲UP)(E, K, Z)
SW25	87-036-215-019	TACT SW(T-BASS)(HE, LH, U)
SW25	87-036-259-018	TACT SW(T-BASS)(E, K, Z)
SW26	87-036-215-019	TACT SW(BBE)(HE, LH, U)
SW26	87-036-259-018	TACT SW(BBE)(E, K, Z)
SW27	87-036-215-019	TACT SW(∧)(HE, LH, U)
SW27	87-036-259-018	TACT SW(∧)(E, K, Z)
SW28	87-036-215-019	TACT SW(∨)(HE, LH, U)
SW28	87-036-259-018	TACT SW(∨)(E, K, Z)
SW29	87-036-215-019	TACT SW(>)(HE, LH, U)
SW29	87-036-259-018	TACT SW(>)(E, K, Z)
SW30	87-036-215-019	TACT SW(<)(HE, LH, U)
SW30	87-036-259-018	TACT SW(<)(E, K, Z)
SW31	87-036-110-019	PUSH SW(OPEN)
SW32	87-036-110-019	PUSH SW(CLOSE)
SW33	87-036-215-019	TACT SW(DISPLAY)(HE, LH, U)
SW33	87-036-259-018	TACT SW(DISPLAY)(E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
SW34	87-036-215-019	TACT SW(COUNTER/RESET)(HE, LH, U)
SW34	87-036-259-018	TACT SW(COUNTER/RESET)(E, K, Z)

===VR CIRCUIT BAORD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C701	★87-010-404-019	CAP, ELECT 4.7-50 SME
C702	★87-010-404-019	CAP, ELECT 4.7-50 SME
C703	★87-010-404-019	CAP, ELECT 4.7-50 SME
C704	★87-010-404-019	CAP, ELECT 4.7-50 SME
C705	★87-010-404-019	CAP, ELECT 4.7-50 SME
C706	★87-010-404-019	CAP, ELECT 4.7-50 SME
C707	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C708	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C711	★87-010-402-019	CAP, ELECT 2.2-50 SME
C712	★87-010-402-019	CAP, ELECT 2.2-50 SME
C715	★87-010-546-019	CAP, ELECT 0.33-50 SME
C716	★87-010-546-019	CAP, ELECT 0.33-50 SME
C719	★87-010-544-019	CAP, ELECT 0.1-50
C720	★87-010-544-019	CAP, ELECT 0.1-50
C721	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C722	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C725	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C726	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C729	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C732	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C733	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C734	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C735	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C736	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C737	★87-010-404-019	CAP, ELECT 4.7-50 SME
C738	★87-010-404-019	CAP, ELECT 4.7-50 SME
C750	★87-010-371-019	CAP, ELECT 470-6.3
C751	★87-010-401-019	CAP, ELECT 1-50 SME
C752	★87-010-401-019	CAP, ELECT 1-50 SME
C753	★87-010-401-019	CAP, ELECT 1-50 SME
C754	★87-010-401-019	CAP, ELECT 1-50 SME
C759	★87-010-546-019	CAP, ELECT 0.33-50 SME
C760	★87-010-546-019	CAP, ELECT 0.33-50 SME
C761	★87-010-400-019	CAP, ELECT 0.47-50 SME
C762	★87-010-400-019	CAP, ELECT 0.47-50 SME
C763	★87-010-404-019	CAP, ELECT 4.7-50 SME
C764	★87-010-404-019	CAP, ELECT 4.7-50 SME
C767	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C768	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C771	★87-010-400-019	CAP, ELECT 0.47-50 SME
C772	★87-010-400-019	CAP, ELECT 0.47-50 SME
C773	★87-010-404-019	CAP, ELECT 4.7-50 SME
C774	★87-010-404-019	CAP, ELECT 4.7-50 SME
C775	★87-010-101-019	CAP, ELECT 220-16 SME
C776	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C777	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C779	★87-010-404-019	CAP, ELECT 4.7-50 SME
C780	★87-010-404-019	CAP, ELECT 4.7-50 SME
C781	★87-010-404-019	CAP, ELECT 4.7-50 SME
C782	★87-010-404-019	CAP, ELECT 4.7-50 SME
C786	★87-010-404-019	CAP. ELECT 4.7-50 SME(HE)
C787	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C788	★87-010-405-019	CAP, ELECT 10-50 SME(HE)
C790	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C791	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C792	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE)
C793	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)
C794	★87-018-202-019	CAP, CERA-SOL U 6800P-16 X(HE)
C795	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C796	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C797	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE, LH, U)
C798	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C801	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C802	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)

REF. NO.	PART NO.	DESCRIPTION
VR201	★81-MT3-632-019	VR, 10KB(DIGITAL ECHO)(HE)
VR202	★81-MT3-633-019	VR, 10KA(MIC MIXING)

===TRAY CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C190	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C191	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C192	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
C193	★87-018-211-019	CAP, CERA-SOL U 0.01-50F
SW1	87-036-215-019	TACT SW(1/ROCK)(HE, LH, U)
SW1	87-036-259-018	TACT SW(1/ROCK)(E, K, Z)
SW2	87-036-215-019	TACT SW(2/POPS)(HE, LH, U)
SW2	87-036-259-018	TACT SW(2/POPS)(E, K, Z)
SW3	87-036-215-019	TACT SW(3/CLASSIC)(HE, LH, U)
SW3	87-036-259-018	TACT SW(3/CLASSIC)(E, K, Z)
SW4	87-036-215-019	TACT SW(4/HS)(HE, LH, U)
SW4	87-036-259-018	TACT SW(4/HS)(E, K, Z)
SW5	87-036-215-019	TACT SW(5/CAR)(HE, LH, U)
SW5	87-036-259-018	TACT SW(5/CAR)(E, K, Z)
SW6	87-036-215-019	TACT SW(MEMORY)(HE, LH, U)
SW6	87-036-259-018	TACT SW(MEMORY)(E, K, Z)
SW7	87-036-215-019	TACT SW(ON)(HE, LH, U)
SW7	87-036-259-018	TACT SW(ON)(E, K, Z)
SW8	87-036-215-019	TACT SW(OFF)(HE, LH, U)
SW8	87-036-259-018	TACT SW(OFF)(E, K, Z)
SW9	87-036-215-019	TACT SW(PRGM/CHECK)(HE, LH, U)
SW9	87-036-259-018	TACT SW(PRGM/CHECK)(E, K, Z)
SW10	87-036-215-019	TACT SW(RANDOM)(HE, LH, U)
SW10	87-036-259-018	TACT SW(RANDOM)(E, K, Z)
SW11	87-036-215-019	TACT SW(REPEAT/BLANK)(HE, LH, U)
SW11	87-036-259-018	TACT SW(REPEAT/BLANK)(E, K, Z)
SW12	87-036-215-019	TACT SW(AUTO/AI)(HE, LH, U)
SW12	87-036-259-018	TACT SW(AUTO/AI)(E, K, Z)
SW13	87-036-215-019	TACT SW(PRGM)(HE, LH, U)
SW13	87-036-259-018	TACT SW(PRGM)(E, K, Z)
SW14	87-036-215-019	TACT SW(CLEAR)(HE, LH, U)
SW14	87-036-259-018	TACT SW(CLEAR)(E, K, Z)
SW17	87-036-215-019	TACT SW(TIMER CHECK/TIME SET)(HE, LH, U)
SW17	87-036-259-018	TACT SW(TIMER CHECK/TIME SET)(E, K, Z)
SW18	87-036-215-019	TACT SW(SLEEP)(HE, LH, U)
SW18	87-036-259-018	TACT SW(SLEEP)(E, K, Z)
SW19	87-036-215-019	TACT SW(TUNING MODE)(HE, LH, U)
SW19	87-036-259-018	TACT SW(TUNING MODE)(E, K, Z)
SW20	87-036-215-019	TACT SW(TIMER SELECT)(HE, LH, U)
SW20	87-036-259-018	TACT SW(TIMER SELECT)(E, K, Z)
SW21	87-036-215-019	TACT SW(SET)(HE, LH, U)
SW21	87-036-259-018	TACT SW(SET)(E, K, Z)
SW22	87-036-215-019	TACT SW(▼DOWN)(HE, LH, U)
SW22	87-036-259-018	TACT SW(▼DOWN)(E, K, Z)
SW23	87-036-215-019	TACT SW(▲UP)(HE, LH, U)
SW23	87-036-259-018	TACT SW(▲UP)(E, K, Z)
SW25	87-036-215-019	TACT SW(T-BASS)(HE, LH, U)
SW25	87-036-259-018	TACT SW(T-BASS)(E, K, Z)
SW26	87-036-215-019	TACT SW(BBE)(HE, LH, U)
SW26	87-036-259-018	TACT SW(BBE)(E, K, Z)
SW27	87-036-215-019	TACT SW(∧)(HE, LH, U)
SW27	87-036-259-018	TACT SW(∧)(E, K, Z)
SW28	87-036-215-019	TACT SW(∨)(HE, LH, U)
SW28	87-036-259-018	TACT SW(∨)(E, K, Z)
SW29	87-036-215-019	TACT SW(>)(HE, LH, U)
SW29	87-036-259-018	TACT SW(>)(E, K, Z)
SW30	87-036-215-019	TACT SW(<)(HE, LH, U)
SW30	87-036-259-018	TACT SW(<)(E, K, Z)
SW31	87-036-110-019	PUSH SW(OPEN)
SW32	87-036-110-019	PUSH SW(CLOSE)
SW33	87-036-215-019	TACT SW(DISPLAY)(HE, LH, U)
SW33	87-036-259-018	TACT SW(DISPLAY)(E, K, Z)
SW34	87-036-215-019	TACT SW(COUNTER/RESET)(HE, LH, U)
SW34	87-036-259-018	TACT SW(COUNTER/RESET)(E, K, Z)

===VR CIRCUIT BAORD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C701	★87-010-404-019	CAP, ELECT 4.7-50 SME
C702	★87-010-404-019	CAP, ELECT 4.7-50 SME
C703	★87-010-404-019	CAP, ELECT 4.7-50 SME
C704	★87-010-404-019	CAP, ELECT 4.7-50 SME
C705	★87-010-404-019	CAP, ELECT 4.7-50 SME
C706	★87-010-404-019	CAP, ELECT 4.7-50 SME
C707	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C708	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C711	★87-010-402-019	CAP, ELECT 2.2-50 SME
C712	★87-010-402-019	CAP, ELECT 2.2-50 SME
C715	★87-010-546-019	CAP, ELECT 0.33-50 SME
C716	★87-010-546-019	CAP, ELECT 0.33-50 SME
C719	★87-010-544-019	CAP, ELECT 0.1-50
C720	★87-010-544-019	CAP, ELECT 0.1-50
C721	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C722	★87-018-203-019	CAP, CERA-SOL U 8200P-16 Y
C725	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C726	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C729	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C732	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C733	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C734	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C735	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C736	★87-018-199-019	CAP, CERA-SOL U 3300P-16 X
C737	★87-010-404-019	CAP, ELECT 4.7-50 SME
C738	★87-010-404-019	CAP, ELECT 4.7-50 SME
C750	★87-010-371-019	CAP, ELECT 470-6.3
C751	★87-010-401-019	CAP, ELECT 1-50 SME
C752	★87-010-401-019	CAP, ELECT 1-50 SME
C753	★87-010-401-019	CAP, ELECT 1-50 SME
C754	★87-010-401-019	CAP, ELECT 1-50 SME
C759	★87-010-546-019	CAP, ELECT 0.33-50 SME
C760	★87-010-546-019	CAP, ELECT 0.33-50 SME
C761	★87-010-400-019	CAP, ELECT 0.47-50 SME
C762	★87-010-400-019	CAP, ELECT 0.47-50 SME
C763	★87-010-404-019	CAP, ELECT 4.7-50 SME
C764	★87-010-404-019	CAP, ELECT 4.7-50 SME
C767	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C768	★87-018-109-019	CAP, CERA-SOL U 22P-50 SL
C771	★87-010-400-019	CAP, ELECT 0.47-50 SME
C772	★87-010-400-019	CAP, ELECT 0.47-50 SME
C773	★87-010-404-019	CAP, ELECT 4.7-50 SME
C774	★87-010-404-019	CAP, ELECT 4.7-50 SME
C775	★87-010-101-019	CAP, ELECT 220-16 SME
C776	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C777	★87-018-127-019	CAP, CERA-SOL U 470P-50 B
C779	★87-010-404-019	CAP, ELECT 4.7-50 SME
C780	★87-010-404-019	CAP, ELECT 4.7-50 SME
C781	★87-010-404-019	CAP, ELECT 4.7-50 SME
C782	★87-010-404-019	CAP, ELECT 4.7-50 SME
C786	★87-010-404-019	CAP. ELECT 4.7-50 SME(HE)
C787	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C788	★87-010-405-019	CAP, ELECT 10-50 SME(HE)
C790	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C791	★87-018-129-019	CAP, CERA-SOL U 680P-50 B(HE)
C792	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE)
C793	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)
C794	★87-018-202-019	CAP, CERA-SOL U 6800P-16 X(HE)
C795	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C796	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C797	★87-018-214-019	CAP, CERA-SOL U 0.1-50 F(HE, LH, U)
C798	★87-010-260-019	CAP, ELECT 47-25 SME(HE)
C801	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y(HE)
C802	★87-010-404-019	CAP, ELECT 4.7-50 SME(HE)
C803	★87-010-260-019	CAP, ELECT 47-25 SME
C804	★87-010-260-019	CAP, ELECT 47-25 SME
C805	★87-010-260-019	CAP, ELECT 47-25 SME
C806	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
VR701	★81-MT3-630-019	VR, MOTOR 50KBX2(VOLUME)
LED701	+ + +	LED, VR(VOLUME)
M701	+ + +	MOTOR, VR(VOLUME)
X700	★87-030-225-019	CERA LOCK CST3.58MHz(HE)

===MOTOR CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
M1	87-045-305-019	MOTOR, RF-500TB(TRAY)

===PT-1 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
⚠PT101	★81-MT3-606-019	POWER TRANSFORMER HU(HE, LH, U)
⚠PT101	★81-MT3-608-018	POWER TRANSFORMER EK(E)
⚠PT101	★81-MT3-609-018	POWER TRANSFORMER E<230V>(K, Z)
R380	★87-025-507-019	RES, NF 0.22-1W

===PT-2 CIRCUIT BOARD SECTION(HE, LH, U MODELS)===

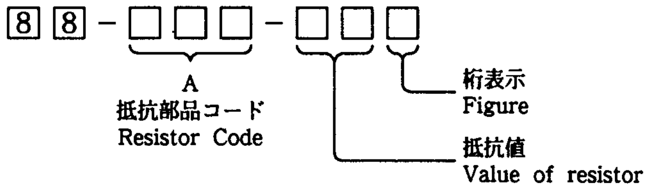
REF. NO.	PART NO.	DESCRIPTION
⚠	★87-033-213-019	FUSE CLAMP SMK(HE, LH, U)
⚠F1	★87-035-366-019	FUSE, 2.5A 250V T E/K(HE, LH)
⚠F1	★87-035-398-010	FUSE, 3.15A 250V UL(U)
⚠SW300	87-036-229-019	SW, SLIDE(AC VOLTAGE)(HE, LH)
⚠SW300	87-036-235-019	SW, SLIDE(AC VOLTAGE)(U)

===MISCELLANEOUS===

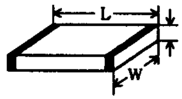
REF. NO.	PART NO.	DESCRIPTION
⚠	82-187-797-019	AC CORD E(HE, E, Z)
⚠	★87-034-749-019	AC CORD, H W/PLUG(LH)
⚠	★87-034-584-019	AC CORD, U SPT-2(U)
⚠	★87-034-592-018	AC CORD K(K)
⚠	★87-085-185-010	BUSHING, AC CORD E(HE, E, K, Z)
⚠	★87-085-184-010	BUSHING, AC CORD D(LH)
⚠	★87-085-189-010	BUSHING, AC CORD U(U)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

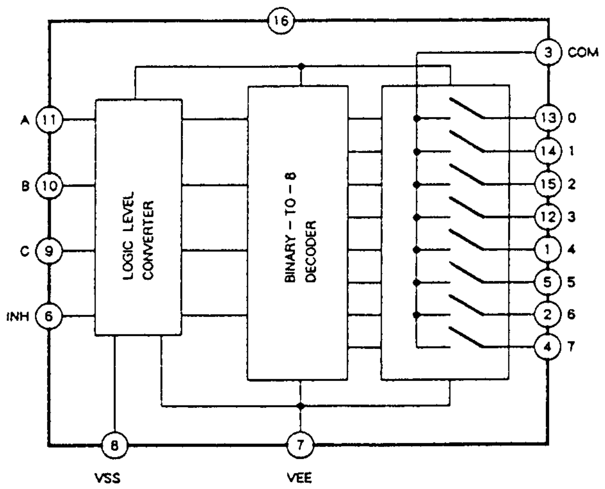


チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

IC BLOCK DIAGRAM (RX – N55)

IC,BU4051B

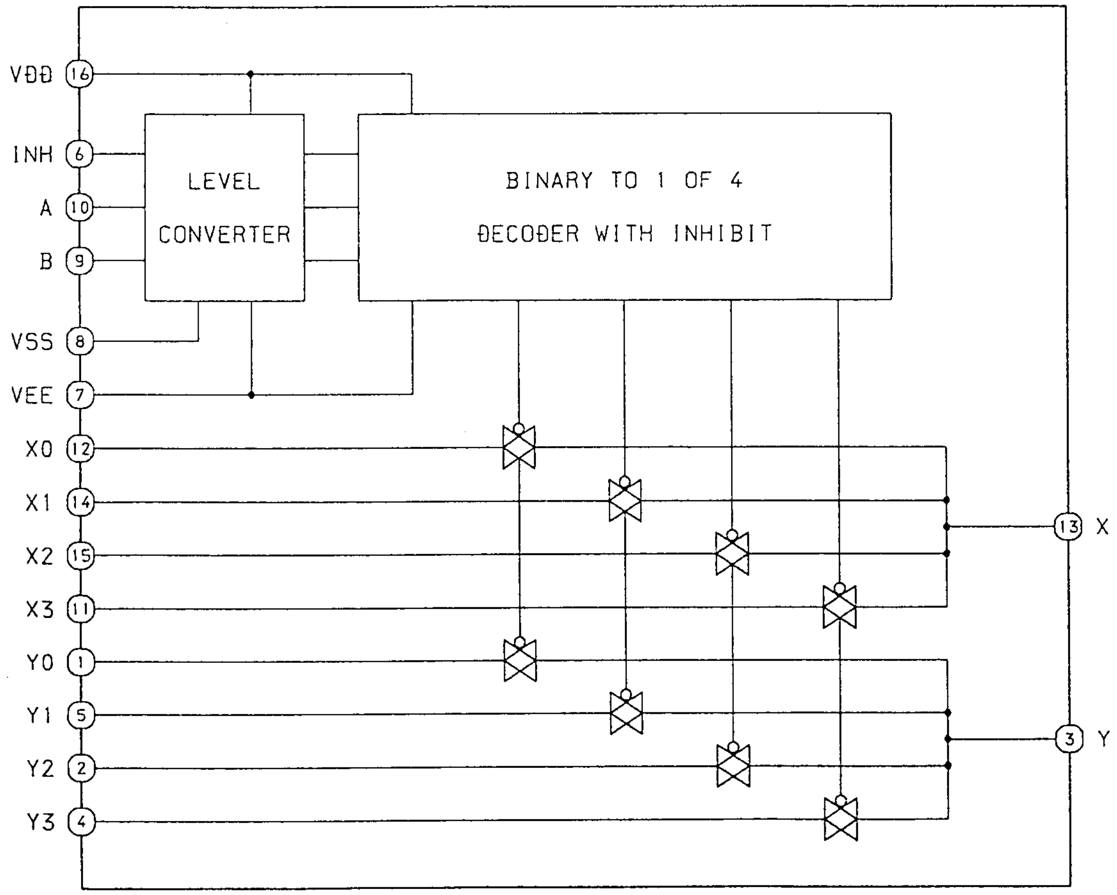

VDO
16
3 COM
A 11
B 10
C 9
INH 6
LOGIC LEVEL CONVERTER
BINARY – TO – 8 DECODER
13 0
14 1
15 2
12 3
1 4
5 5
2 6
4 7
8
7
VSS
VEE

TRUTH TABLE

CONTROL INPUTS				"ON"
INHIBIT	C	B	A	CHANNEL
L	L	L	L	0
L	L	L	H	1
L	L	H	L	2
L	L	H	H	3
L	H	L	L	4
L	H	L	H	5
L	H	H	L	6
L	H	H	H	7
H	※	※	※	NOTE

※Don't Care

IC,BU4052B

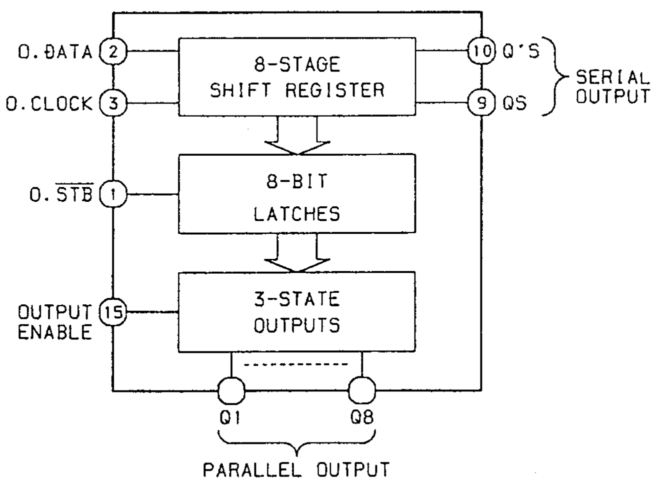

VDD 16
INH 6
A 10
B 9
VSS 8
VEE 7
LEVEL CONVERTER
BINARY TO 1 OF 4 DECODER WITH INHIBIT
X0 12
X1 14
X2 15
X3 11
Y0 1
Y1 5
Y2 2
Y3 4
13 X
3 Y

TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X:DON'T CARE.

IC,BU4094B


O.DATA 2
O.CLOCK 3
O.$\overline{\text{STB}}$ 1
OUTPUT ENABLE 15
8-STAGE SHIFT REGISTER
8-BIT LATCHES
3-STATE OUTPUTS
10 Q'S
9 QS
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT

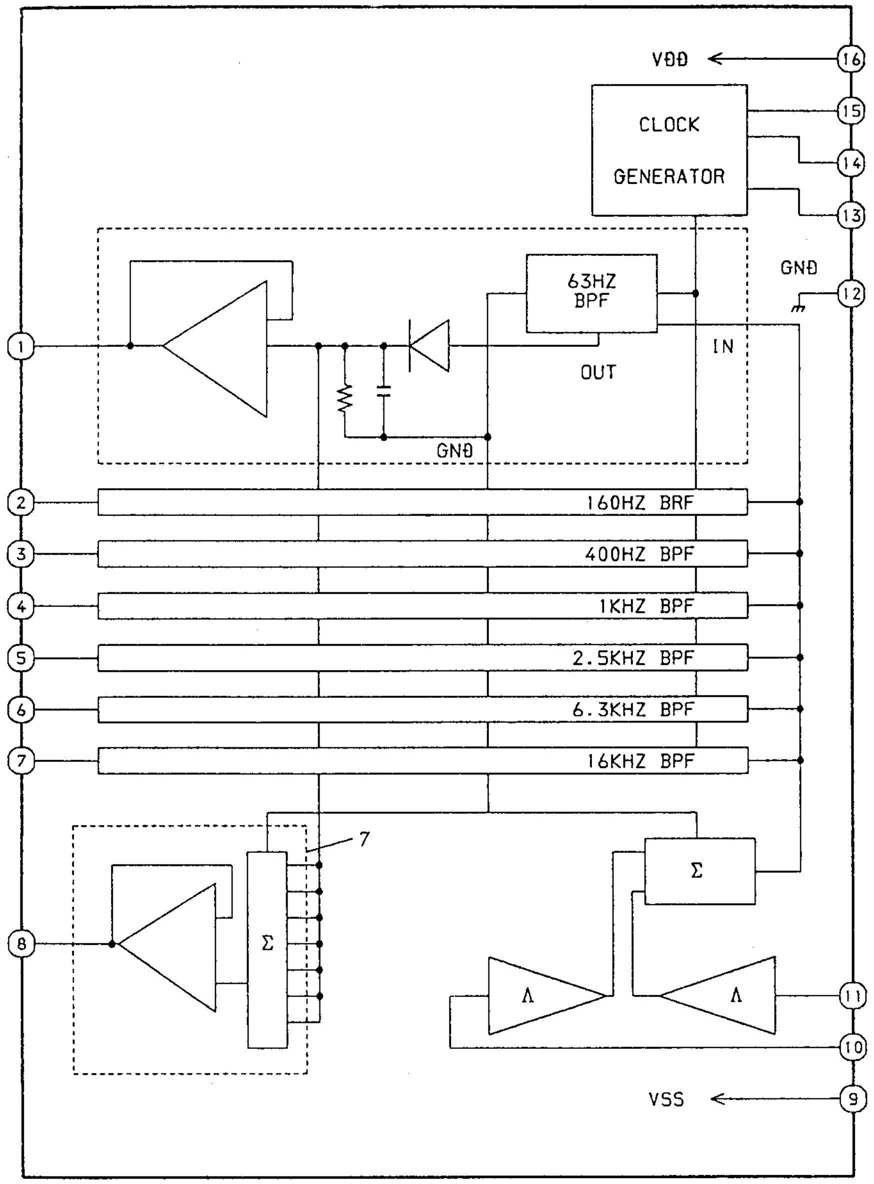
Q1:O.DOLBY ON
Q2:O.DOLBY C
Q3:O.EXT.REC
Q4:O.INT.REC
Q5:O.PLAY
Q6:O.PB2
Q7:O.LED
Q8:O.$\overline{\text{RMT}}$

TRUTH TABLE

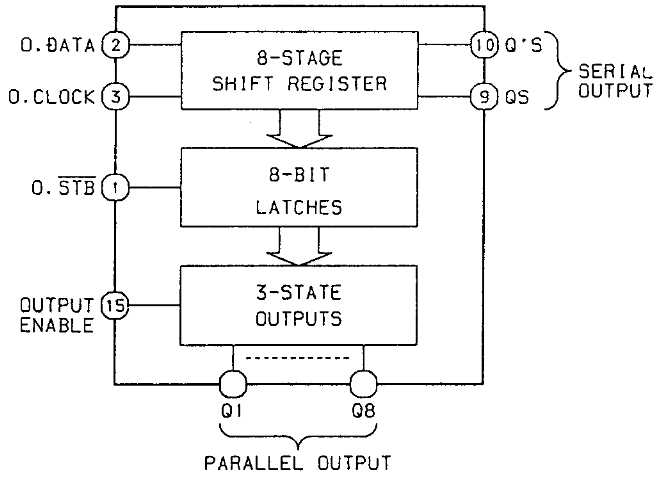
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↑	L	X	X	Z	Z	Q7	NO CHG.
↓	L	X	X	Z	Z	NO CHG.	QS
↑	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↑	H	H	L	L	Qn-1	Q7	NO CHG.
↑	H	H	H	H	Qn-1	Q7	NO CHG.
↓	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE
X = DON'T CARE

IC,XR1091


VDD
16
15
14
13
CLOCK GENERATOR
GND
12
63HZ BPF
IN
OUT
GND
1
2
3
4
5
6
7
160HZ BRF
400HZ BPF
1KHZ BPF
2.5KHZ BPF
6.3KHZ BPF
16KHZ BPF
7
8
Σ
Σ
Λ
Λ
11
10
VSS
9

IC,BU4094B


O.DATA
2
O.CLOCK
3
O.STB
1
OUTPUT ENABLE
15
8-STAGE SHIFT REGISTER
8-BIT LATCHES
3-STATE OUTPUTS
10
Q'S
9
QS
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT

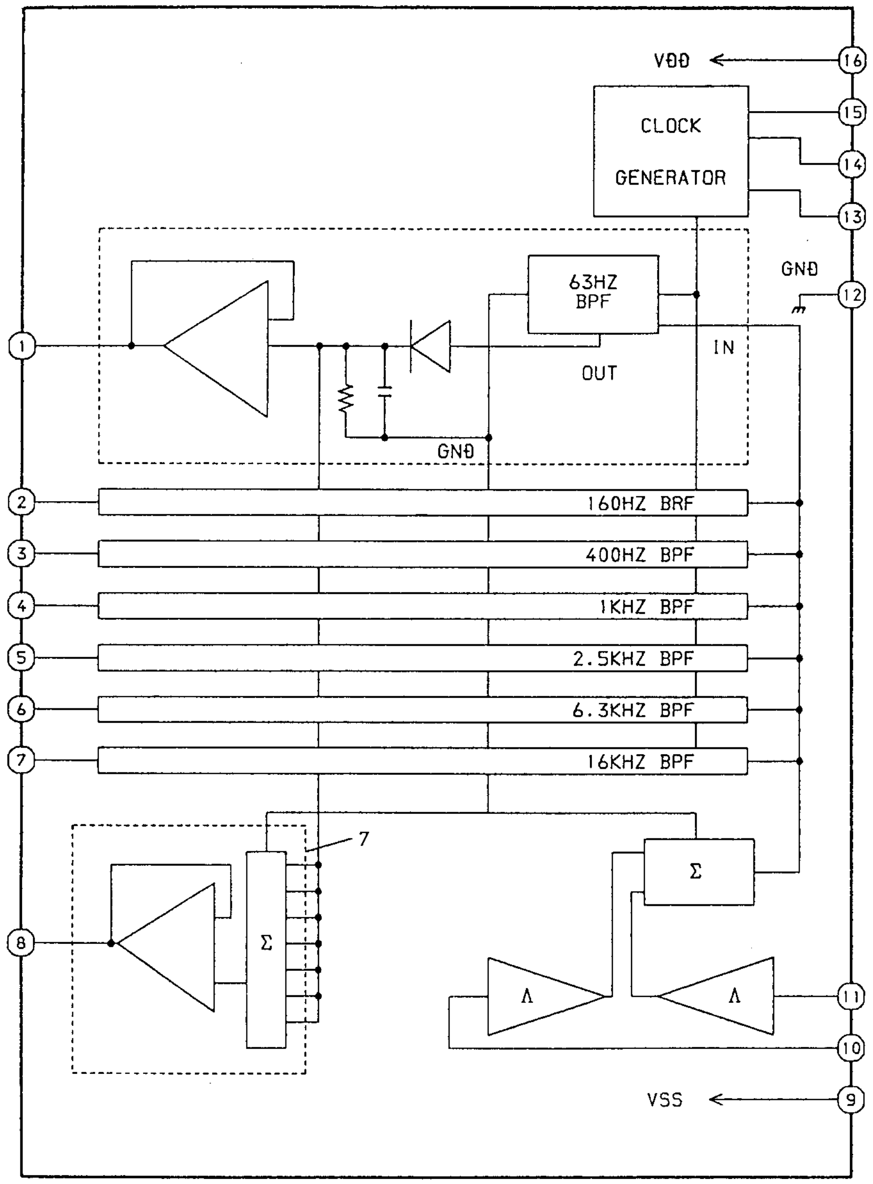
Q1:O.DOLBY ON
Q2:O.DOLBY C
Q3:O.EXT.REC
Q4:O.INT.REC
Q5:O.PLAY
Q6:O.PB2
Q7:O.LED
Q8:O.RMT

TRUTH TABLE

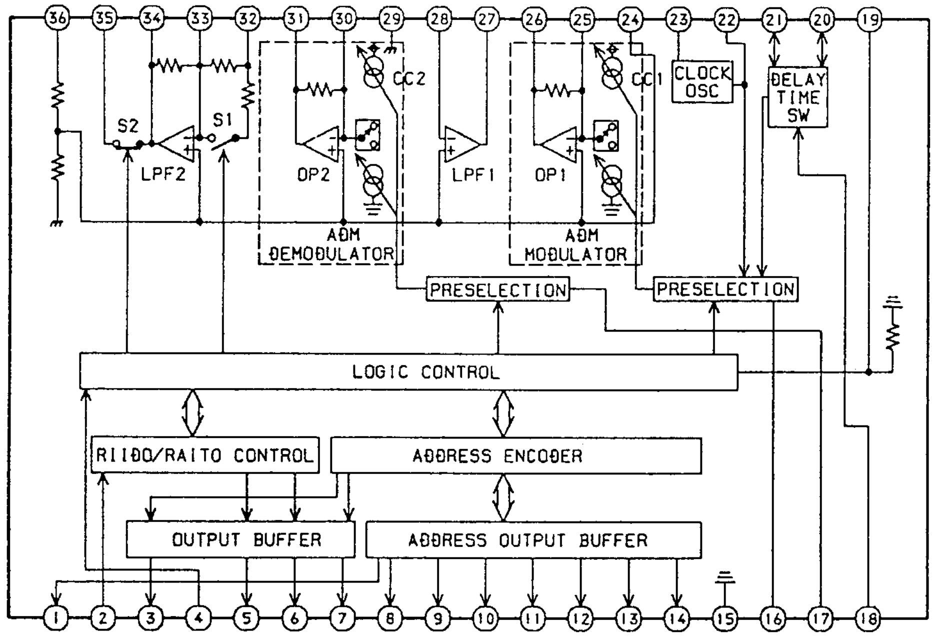
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↑	L	x	x	Z	Z	Q7	NO CHG.
↓	L	x	x	Z	Z	NO CHG.	QS
↑	H	L	x	NO CHG.	NO CHG.	Q7	NO CHG.
↑	H	H	L	L	Qn-1	Q7	NO CHG.
↑	H	H	H	H	Qn-1	Q7	NO CHG.
↓	H	x	x	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE
x = DON'T CARE

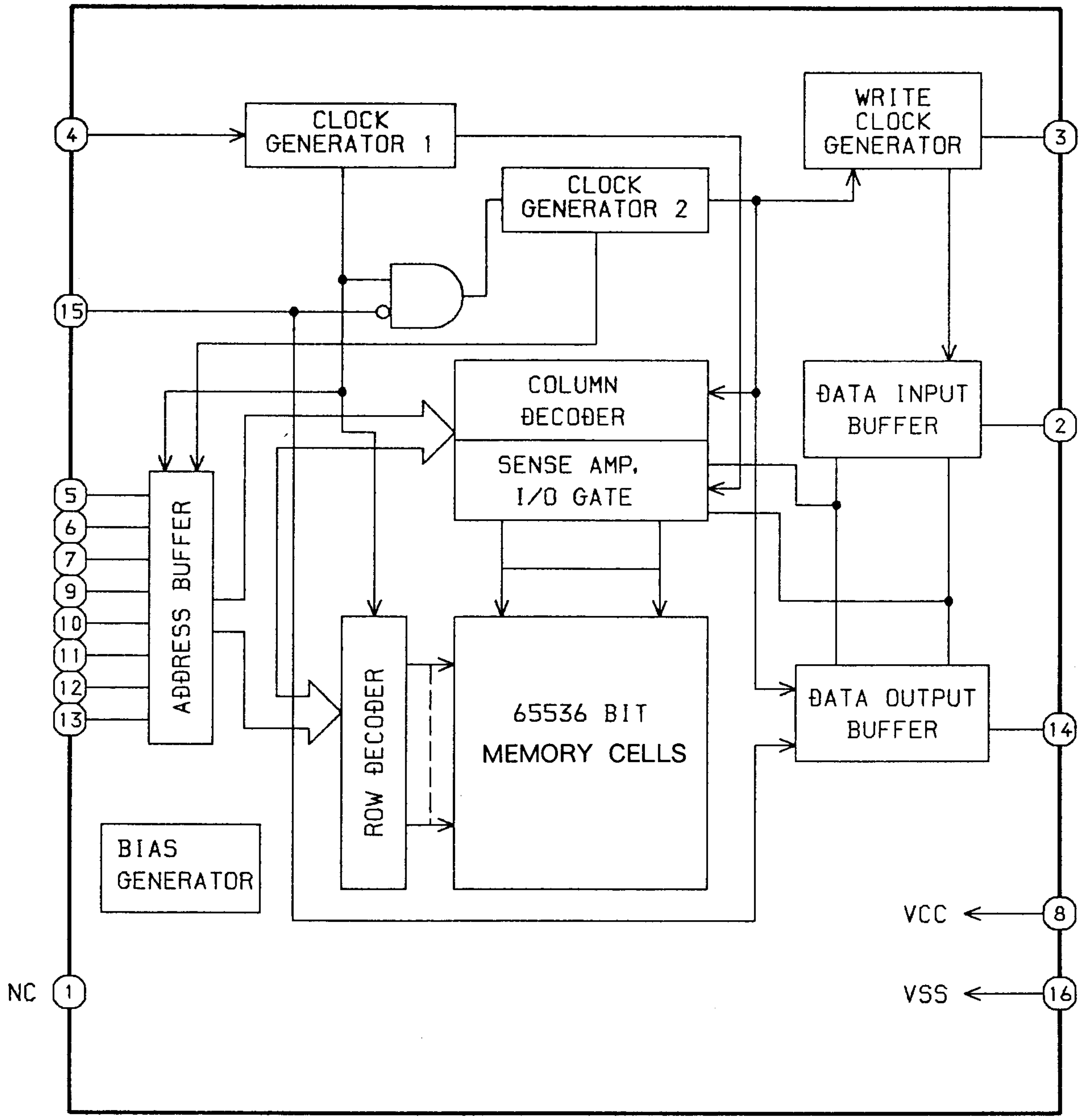
IC,XR1091


VDD
16
CLOCK GENERATOR
15
14
13
GND
12
63HZ BPF
OUT
IN
GND
1
2
160HZ BRF
3
400HZ BPF
4
1KHZ BPF
5
2.5KHZ BPF
6
6.3KHZ BPF
7
16KHZ BPF
7
8
Σ
Σ
A
A
11
10
VSS
9

IC,M50195P


36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
S2
S1
LPF2
OP2
CC2
LPF1
OP1
CC1
ADM DEMODULATOR
ADM MODULATOR
CLOCK OSC
DELAY TIME SW
PRESELECTION
PRESELECTION
LOGIC CONTROL
RIIDO/RAITO CONTROL
ADDRESS ENCODER
OUTPUT BUFFER
ADDRESS OUTPUT BUFFER
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

IC,LM3364 – 15


4
CLOCK GENERATOR 1
CLOCK GENERATOR 2
WRITE CLOCK GENERATOR
3
15
COLUMN DECODER
SENSE AMP, I/O GATE
DATA INPUT BUFFER
2
5
6
7
9
10
11
12
13
ADDRESS BUFFER
ROW DECODER
65536 BIT MEMORY CELLS
DATA OUTPUT BUFFER
14
BIAS GENERATOR
VCC
8
NC
1
VSS
16

IC, DESCRIPTION (RX – N55)

IC, LC866012A – 5181

Pin No.	Pin Name	I/O	Description
1	O. DATA	O	Serial data output to tuner and IC, NJU7305 and BU4094B.
2	O. PLL CE	O	Tuner PLL CE.
3	O. CLK	O	NJU7305 and BU4094B serial clock output.
4	O. $\overline{SI}$	O	Serial data output to LC67216A-4911.
5	I. $\overline{SI}$	I	Serial data input from LC67216A-4911.
6	I. $\overline{CLK}$	I	Serial Clock input from LC67216A-4911.
7	O. GEQ. CE	O	NJU7305 electronic VR control CE.
8	O. $\overline{OE}$	O	IC, BU4094B OE control.
9	TEST	—	Not used.
10	RESET	I	Reset terminal.
11	XT1		Connect to +6V.
12	XT2		Not used.
13	VSS	—	Connect to GND.
14	CF1	I	Ceramic radiator input terminal.
15	CF2	O	Ceramic radiator output terminal.
16	VDD	—	Connect to +6V.
17	I. KEY1	I	Input KEY as A/D level.
18	I. KEY2		
19	I. KEY3		
20	I. SPEANA	I	Input spectrum analyzer input level as A/D level.
21	I. $\overline{HOLD}$	I	Power OFF detection terminal.
22	I. T. BASE	I	Clock time base input.
23	I. $\overline{SL}$	I	SL data input from LC67216A-4911.
24	I. $\overline{RMC}$	I	Remote control serial data input.
25	9G	O	FL GRID output port.
26	12G	O	FL GRID output port.
27	11G	O	FL GRID output port.
28	10G	O	FL GRID output port.
29	8G	O	FL GRID output port.
30	7G	O	FL GRID output port.
31	6G	O	FL GRID output port.
32	1G	O	FL GRID output port.
33	2G	O	FL GRID output port.
34	3G	O	FL GRID output port.
35	4G	O	FL GRID output port.
36	5G	O	FL GRID output port.
37	P1	O	FL segment output port.
38	P2	O	FL segment output port.
39	P6	O	FL segment output port.
40	P8	O	FL segment output port.

Pin No.	Pin Name	I/O	Description
41	VDD	—	Connect to +6V.
42	VPP	—	FL bias.
43	P9	O	FL segment output port.
44	P7	O	FL segment output port.
45	P3	O	FL segment output port.
46	P5	O	FL segment output port.
47	P4	O	FL segment output port.
48	P10	O	FL segment output port.
49	P15	O	FL segment output port.
50	P14	O	FL segment output port.
51	P13	O	FL segment output port.
52	P17	O	FL segment output port.
53	P18	O	FL segment output port. Microcomputer initializing setting.
54	P16	O	FL segment output port. Microcomputer initializing setting.
55	P12	O	FL segment output port. Microcomputer initializing setting.
56	P11	O	FL segment output port. Microcomputer initializing setting.
57	I. INITIAL	I	Initializing setting input.
58	I. $\overline{TUNE}$	I	Input port when tuned.
59	I. $\overline{ST/BIL}$	I	Input port when recieving stereo and bilingual.
60	I. $\overline{TRAY\ OPEN}$	I	Tray open SW input.
61	O. $\overline{POWER}$	O	Output when power ON.
62	O. MUTE	O	Output when MUTE.
63	O. CLK	O	CLK output for tuner.
64	O. $\overline{STB}$	O	IC, BU4094B STB output.

IC, LC7218

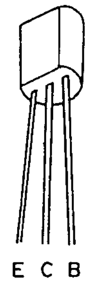
Pin No.	Pin Name	I/O	Description
1	X IN	I	Connected to the crystal clock oscillator.
2	CE	I	Input terminal of control data from microcomputer LC866012A.
3	DATA	I	
4	CLK	I	
5	—	—	Not used.
6	—	—	Not used.
7	—	—	Not used.
8	—	—	Not used.
9	T-BASE	O	Clock time base output.
10	—	—	Not used.
11	—	—	
12	AUTO-H	O	Auto hi-blend selection output.
13	MW-L	O	Tuner band selection output.
14	—	—	Not used.

Pin No.	Pin Name	I/O	Description
41	VDD	—	Connect to +6V.
42	VPP	—	FL bias.
43	P9	O	FL segment output port.
44	P7	O	FL segment output port.
45	P3	O	FL segment output port.
46	P5	O	FL segment output port.
47	P4	O	FL segment output port.
48	P10	O	FL segment output port.
49	P15	O	FL segment output port.
50	P14	O	FL segment output port.
51	P13	O	FL segment output port.
52	P17	O	FL segment output port.
53	P18	O	FL segment output port. Microcomputer initializing setting.
54	P16	O	FL segment output port. Microcomputer initializing setting.
55	P12	O	FL segment output port. Microcomputer initializing setting.
56	P11	O	FL segment output port. Microcomputer initializing setting.
57	I. INITIAL	I	Initializing setting input.
58	I. $\overline{\text{TUNE}}$	I	Input port when tuned.
59	I. $\overline{\text{ST/BIL}}$	I	Input port when recieving stereo and bilingual.
60	I. $\overline{\text{TRAY OPEN}}$	I	Tray open SW input.
61	O. $\overline{\text{POWER}}$	O	Output when power ON.
62	O. MUTE	O	Output when MUTE.
63	O. CLK	O	CLK output for tuner.
64	O. $\overline{\text{STB}}$	O	IC, BU4094B STB output.

IC, LC7218

Pin No.	Pin Name	I/O	Description
1	X IN	I	Connected to the crystal clock oscillator.
2	CE	I	Input terminal of control data from microcomputer LC866012A.
3	DATA	I	
4	CLK	I	
5	—	—	Not used.
6	—	—	Not used.
7	—	—	Not used.
8	—	—	Not used.
9	T-BASE	O	Clock time base output.
10	—	—	Not used.
11	—	—	
12	AUTO-H	O	Auto hi-blend selection output.
13	MW-L	O	Tuner band selection output.
14	—	—	Not used.
15	—	—	Not used.
16	—	—	Not used.
17	FM-L	O	Tuner band selection output. FM/AM
18	AM IN	I	AM oscillation frequency input.
19	FM IN	I	FM oscillation frequency input.
20	VDD	—	+5V power supply terminal.
21	E0	O	Tuning voltage control output.
22	E0	—	Not used.
23	VSS	—	Connected to GND.
24	XOUT	O	Connected to crystal clock oscillator.

TRANSISTOR ILLUSTRATION (RX – N55)



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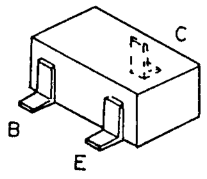
2SA1318
2SC1815
2SC3266
2SC3331
2SD655



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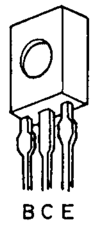
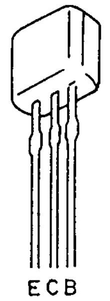
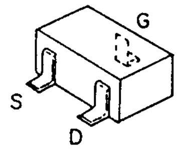
2SC2714
2SC3326
DTA114EK
DTA114YK



2SB1330
2SD2005



2SC1740
DTA114YS
DTA144
DTC114
DTC124



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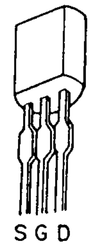
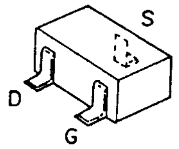
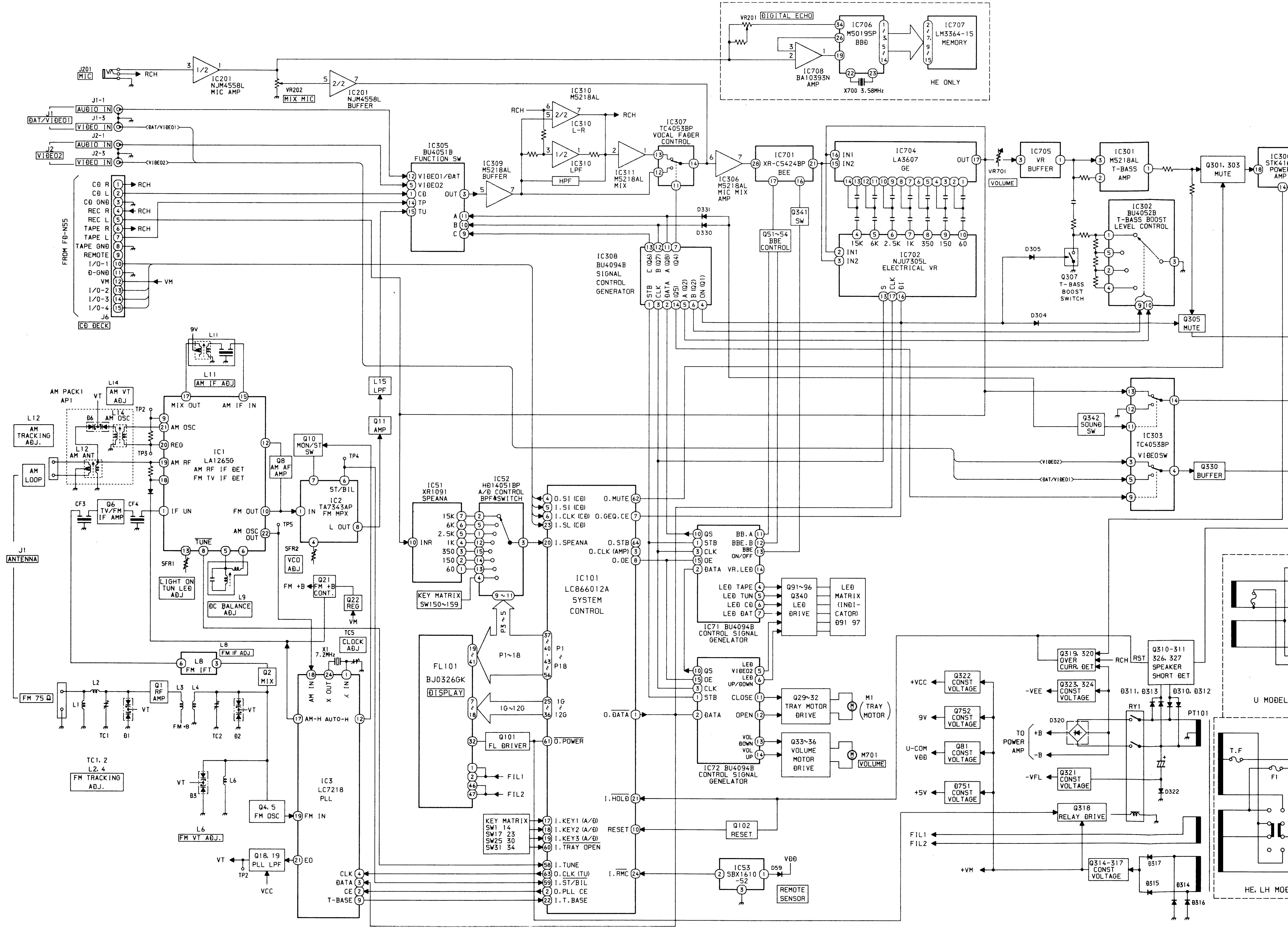


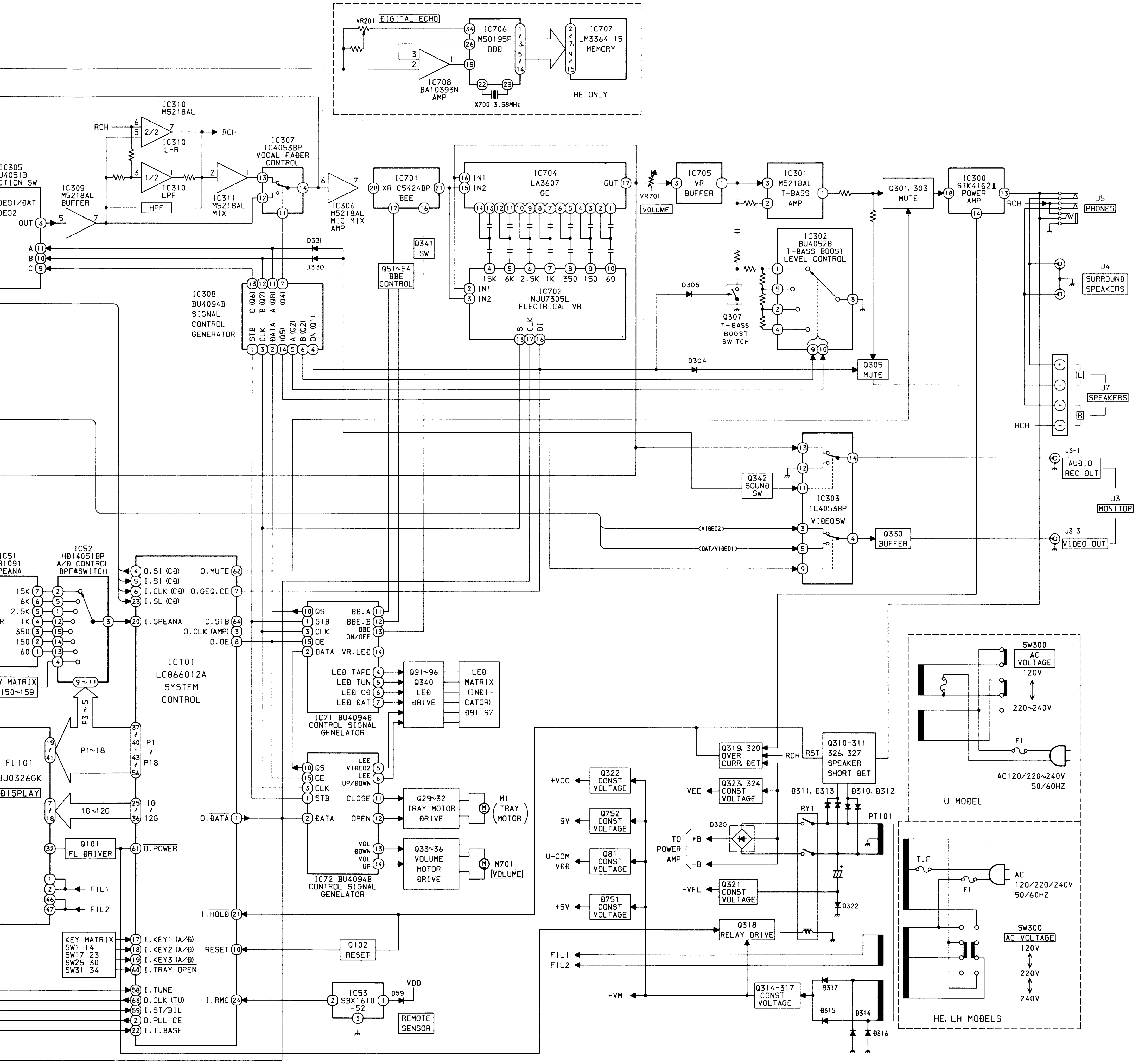
2SK246



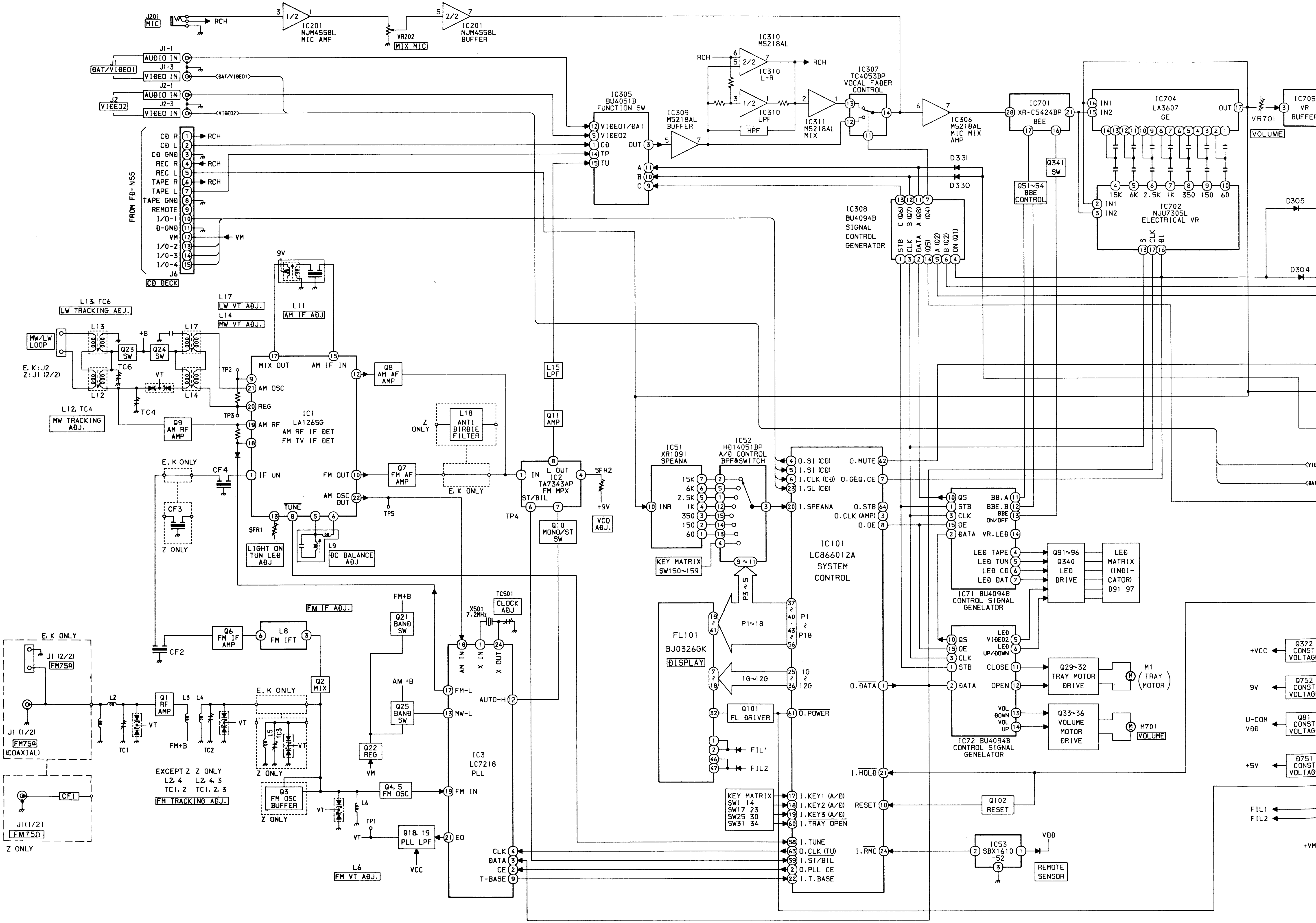
2SK211
2SK302

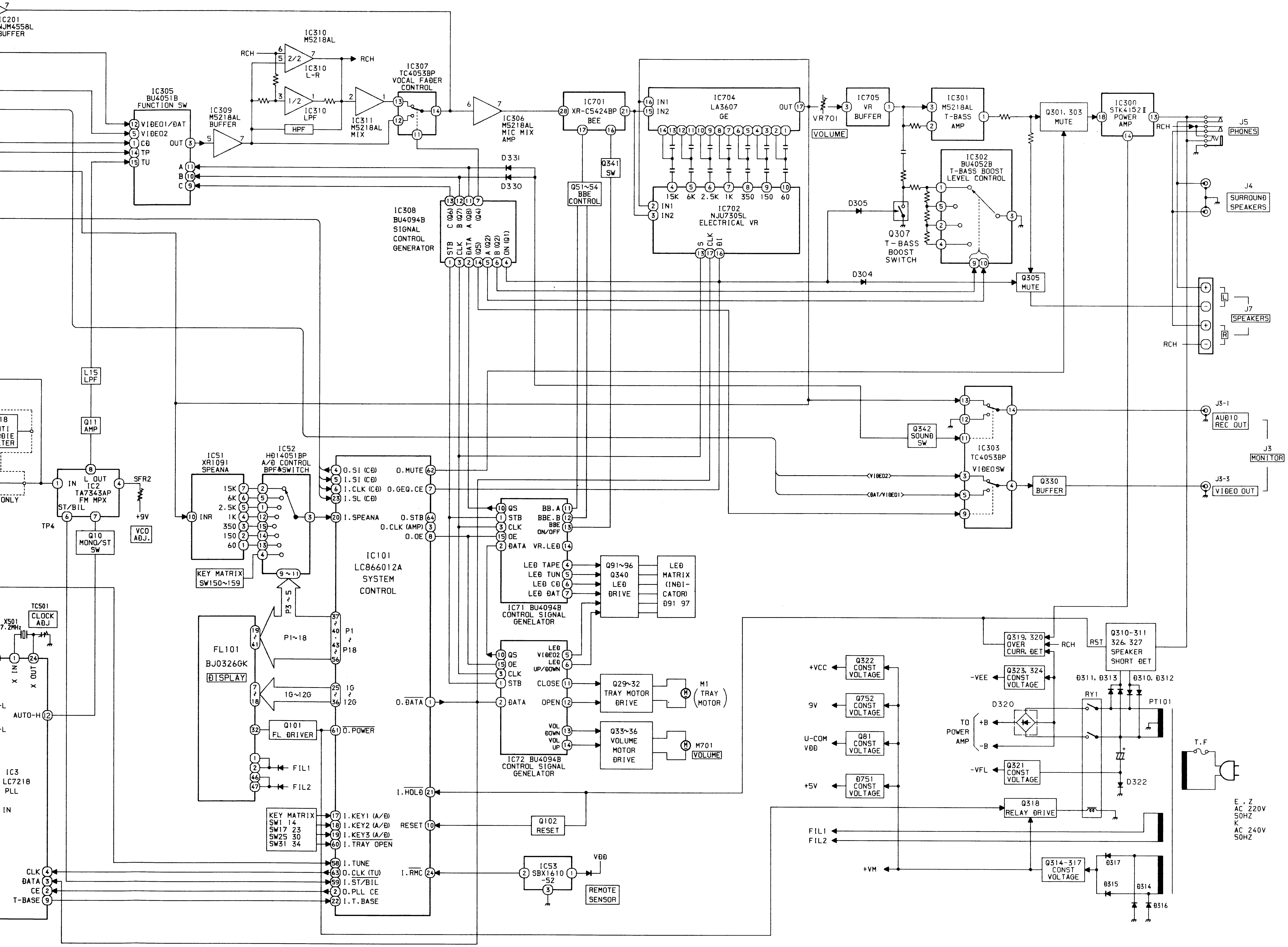
BLOCK DIAGRAM – 1 (RX – N55 : HE, LH, U MODELS)


VR201
DIGITAL ECHO
IC706
M50195P
BBD
IC707
LM3364-15
MEMORY
IC708
BA10393N
AMP
X700 3.58MHz
HE ONLY
J201
MIC
RCH
IC201
NJM4558L
MIC AMP
VR202
MIX MIC
IC201
NJM4558L
BUFFER
IC310
M5218AL
2/2
RCH
IC310
L-R
1/2
IC310
LPF
HPF
IC311
M5218AL
MIX
IC307
TC4053BP
VOCAL FADER
CONTROL
IC306
M5218AL
MIC MIX
AMP
IC701
XR-C5424BP
BEE
Q341
SW
Q51~54
BBE
CONTROL
IC704
LA3607
GE
IN1
IN2
OUT
15K
6K
2.5K
1K
350
150
60
IC702
NJU7305L
ELECTRICAL VR
S
CLK
DI
VR701
VOLUME
IC705
VR
BUFFER
IC301
M5218AL
T-BASS
AMP
Q301, 303
MUTE
IC302
BU4052B
T-BASS BOOST
LEVEL CONTROL
D305
Q307
T-BASS
BOOST
SWITCH
D304
Q305
MUTE
J1-1
AUDIO IN
J1
DAT/VIDEO1
J1-3
VIDEO IN
(DAT/VIDEO1)
J2-1
AUDIO IN
J2
VIDEO2
J2-3
VIDEO IN
(VIDEO2)
IC305
BU4051B
FUNCTION SW
VIDEO1/DAT
VIDEO2
CD
TP
TU
OUT
A
B
C
IC309
M5218AL
BUFFER
D331
D330
IC308
BU4094B
SIGNAL
CONTROL
GENERATOR
C (Q6)
B (Q7)
A (Q8)
(Q4)
STB
CLK
DATA
(Q5)
A (Q2)
B (Q2)
ON (Q1)
CD R
CD L
CD GND
REC R
REC L
TAPE R
TAPE L
TAPE GND
REMOTE
I/O-1
D-GND
VM
I/O-2
I/O-3
I/O-4
J6
CD DECK
FROM FD-N55
9V
L11
L11
AM IF ADJ
L15
LPF
Q11
AMP
AM PACK1
AP1
L14
AM VT
ADJ
VT
L14
AM OSC
TP2
D6
L12
AM
TRACKING
ADJ.
L12
AM ANT
AM
LOOP
TP3
MIX OUT
AM IF IN
AM OSC
REG
AM RF
IC1
LA1265G
AM RF IF DET
FM TV IF DET
IF UN
FM OUT
AM OSC
OUT
TUNE
Q10
MON/ST
SW
Q8
AM AF
AMP
TP4
ST/BIL
IC2
TA7343AP
FM MPX
IN
L OUT
TP5
SFR2
VCO
ADJ
SFR1
LIGHT ON
TUN LED
ADJ
L9
DC BALANCE
ADJ
Q21
FM +B
CONT.
FM +B
Q22
REG
VM
CF3
Q6
TV/FM
IF AMP
CF4
J1
ANTENNA
L8
FM IF ADJ
L8
FM IFT
Q2
MIX
FM 75 Ω
L2
Q1
RF
AMP
L3
L4
L1
VT
TC1
D1
FM+B
TC2
D2
TC1, 2
L2, 4
FM TRACKING
ADJ.
VT
D3
L6
L6
FM VT ADJ.
Q4, 5
FM OSC
Q18, 19
PLL LPF
VT
TP2
VCC
TC5
CLOCK
ADJ
X1
7.2MHz
AM IN
X OUT
X IN
AM-H AUTO-H
IC3
LC7218
PLL
FM IN
EO
CLK
DATA
CE
T-BASE
IC51
XR1091
SPEANA
IC52
HD14051BP
A/D CONTROL
BPF SWITCH
INR
KEY MATRIX
SW150~159
9~11
P3~5
FL101
BJ0326GK
DISPLAY
P1~18
1G~12G
Q101
FL DRIVER
FIL1
FIL2
KEY MATRIX
SW1 14
SW17 23
SW25 30
SW31 34
IC101
LC866012A
SYSTEM
CONTROL
O.SI (CD)
I.SI (CD)
I.CLK (CD)
I.SL (CD)
I.SPEANA
P1
P18
1G
12G
O.POWER
I.KEY1 (A/D)
I.KEY2 (A/D)
I.KEY3 (A/D)
I.TRAY OPEN
I.TUNE
O.CLK (TU)
I.ST/BIL
O.PLL CE
I.T.BASE
O.MUTE
O.GEQ.CE
O.STB
O.CLK (AMP)
O.DE
O.DATA
I.HOLD
RESET
I.RMC
QS
STB
CLK
DE
DATA
BB.A
BBE.B
BBE ON/OFF
VR.LED
LED TAPE
LED TUN
LED CD
LED DAT
IC71 BU4094B
CONTROL SIGNAL
GENELATOR
Q91~96
Q340
LED
DRIVE
LED
MATRIX
(INDI-
CATOR)
D91 97
LED
VIDEO2
LED
UP/DOWN
CLOSE
OPEN
VOL DOWN
VOL UP
IC72 BU4094B
CONTROL SIGNAL
GENELATOR
Q29~32
TRAY MOTOR
DRIVE
M1
TRAY
MOTOR
Q33~36
VOLUME
MOTOR
DRIVE
M701
VOLUME
Q102
RESET
IC53
SBX1610
-52
VDD
D59
REMOTE
SENSOR
Q342
SOUND
SW
IC303
TC4053BP
VIDEOSW
(VIDEO2)
(DAT/VIDEO1)
Q330
BUFFER
+VCC
Q322
CONST
VOLTAGE
9V
Q752
CONST
VOLTAGE
U-COM
VDD
Q81
CONST
VOLTAGE
+5V
D751
CONST
VOLTAGE
Q319, 320
OVER
CURR. DET
RCH
RST
Q310-311
326, 327
SPEAKER
SHORT DET
-VEE
Q323, 324
CONST
VOLTAGE
D311, D313
D310, D312
RY1
PT101
D320
TO
POWER
AMP
+B
-B
-VFL
Q321
CONST
VOLTAGE
D322
Q318
RELAY DRIVE
FIL1
FIL2
+VM
Q314-317
CONST
VOLTAGE
D317
D315
D314
D316
IC30
STK41
POWE
AMP
U MODEL
T.F
F1
HE, LH MO

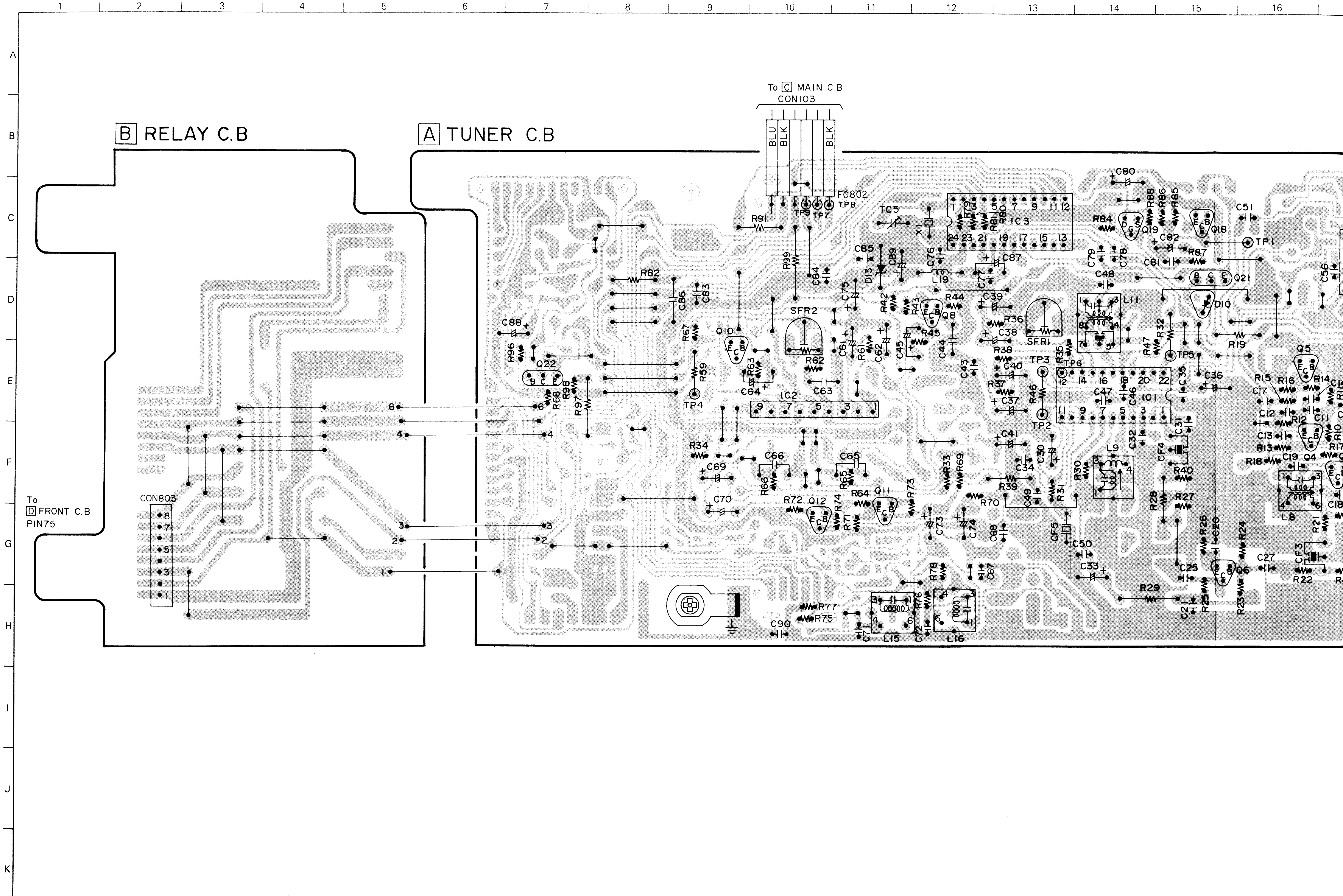

VR201
DIGITAL ECHO
IC706
M50195P
BBD
IC707
LM3364-15
MEMORY
IC708
BA10393N
AMP
X700 3.58MHz
HE ONLY
IC310
M5218AL
RCH
2/2
IC310
L-R
1/2
IC310
LPF
HPF
IC307
TC4053BP
VOCAL FADER
CONTROL
IC311
M5218AL
MIX
IC306
M5218AL
MIC MIX
AMP
IC305
J4051B
CTION SW
IC309
M5218AL
BUFFER
OUT
IC701
XR-C5424BP
BBE
IC704
LA3607
GE
IN1
IN2
OUT
15K 6K 2.5K 1K 350 150 60
IC702
NJU7305L
ELECTRICAL VR
S CLK DI
Q341
SW
Q51~54
BBE
CONTROL
D331
D330
IC308
BU4094B
SIGNAL
CONTROL
GENERATOR
C (Q6) B (Q7) A (Q8) (Q4)
STB CLK DATA (Q5) A (Q2) B (Q2) ON (Q1)
VR701
VOLUME
IC705
VR
BUFFER
IC301
M5218AL
T-BASS
AMP
Q301, 303
MUTE
IC300
STK4162II
POWER
AMP
RCH
J5
PHONES
J4
SURROUND
SPEAKERS
IC302
BU4052B
T-BASS BOOST
LEVEL CONTROL
D305
Q307
T-BASS
BOOST
SWITCH
D304
Q305
MUTE
J7
SPEAKERS
L
R
RCH
IC303
TC4053BP
VIDEOSW
Q342
SOUND
SW
J3-1
AUDIO
REC OUT
J3
MONITOR
(VIDEO2)
(DAT/VIDEO1)
Q330
BUFFER
J3-3
VIDEO OUT
IC51
R1091
PEANA
IC52
HD14051BP
A/D CONTROL
BPF&SWITCH
15K 6K 2.5K 1K 350 150 60
MATRIX
150~159
IC101
LC866012A
SYSTEM
CONTROL
O.SI (CD)
I.SI (CD)
I.CLK (CD)
I.SL (CD)
I.SPEANA
O.MUTE
O.GEQ.CE
O.STB
O.CLK (AMP)
O.OE
O.DATA
O.POWER
I.HOLD
RESET
I.RMC
I.KEY1 (A/D)
I.KEY2 (A/D)
I.KEY3 (A/D)
I.TRAY OPEN
I.TUNE
O.CLK (TU)
I.ST/BIL
O.PLL CE
I.T.BASE
P3~5
P1~18
P1
P18
1G
12G
1G~12G
FL101
BJ0326GK
DISPLAY
Q101
FL DRIVER
FIL1
FIL2
KEY MATRIX
SW1 14
SW17 23
SW25 30
SW31 34
QS STB CLK OE DATA
BB.A
BBE.B
BBE ON/OFF
VR.LED
LED TAPE
LED TUN
LED CD
LED DAT
Q91~96
Q340
LED
DRIVE
LED
MATRIX
(INDI-
CATOR)
D91 97
IC71 BU4094B
CONTROL SIGNAL
GENERATOR
LED VIDEO2
LED UP/DOWN
CLOSE
OPEN
VOL DOWN
VOL UP
Q29~32
TRAY MOTOR
DRIVE
M1
TRAY
MOTOR
Q33~36
VOLUME
MOTOR
DRIVE
M701
VOLUME
IC72 BU4094B
CONTROL SIGNAL
GENERATOR
Q102
RESET
IC53
SBX1610
-52
D59
VDD
REMOTE
SENSOR
+VCC
Q322
CONST
VOLTAGE
9V
Q752
CONST
VOLTAGE
U-COM
VDD
Q81
CONST
VOLTAGE
+5V
D751
CONST
VOLTAGE
+VM
Q319, 320
OVER
CURR. DET
RCH
RST
Q310-311
326, 327
SPEAKER
SHORT DET
-VEE
Q323, 324
CONST
VOLTAGE
D311, D313
D310, D312
RY1
D320
PT101
TO
POWER
AMP
+B
-B
-VFL
Q321
CONST
VOLTAGE
D322
Q318
RELAY DRIVE
FIL1
FIL2
Q314-317
CONST
VOLTAGE
D317
D315
D314
D316
SW300
AC
VOLTAGE
120V
220~240V
F1
AC120/220~240V
50/60HZ
U MODEL
T.F
F1
AC
120/220/240V
50/60HZ
SW300
AC VOLTAGE
120V
220V
240V
HE, LH MODELS

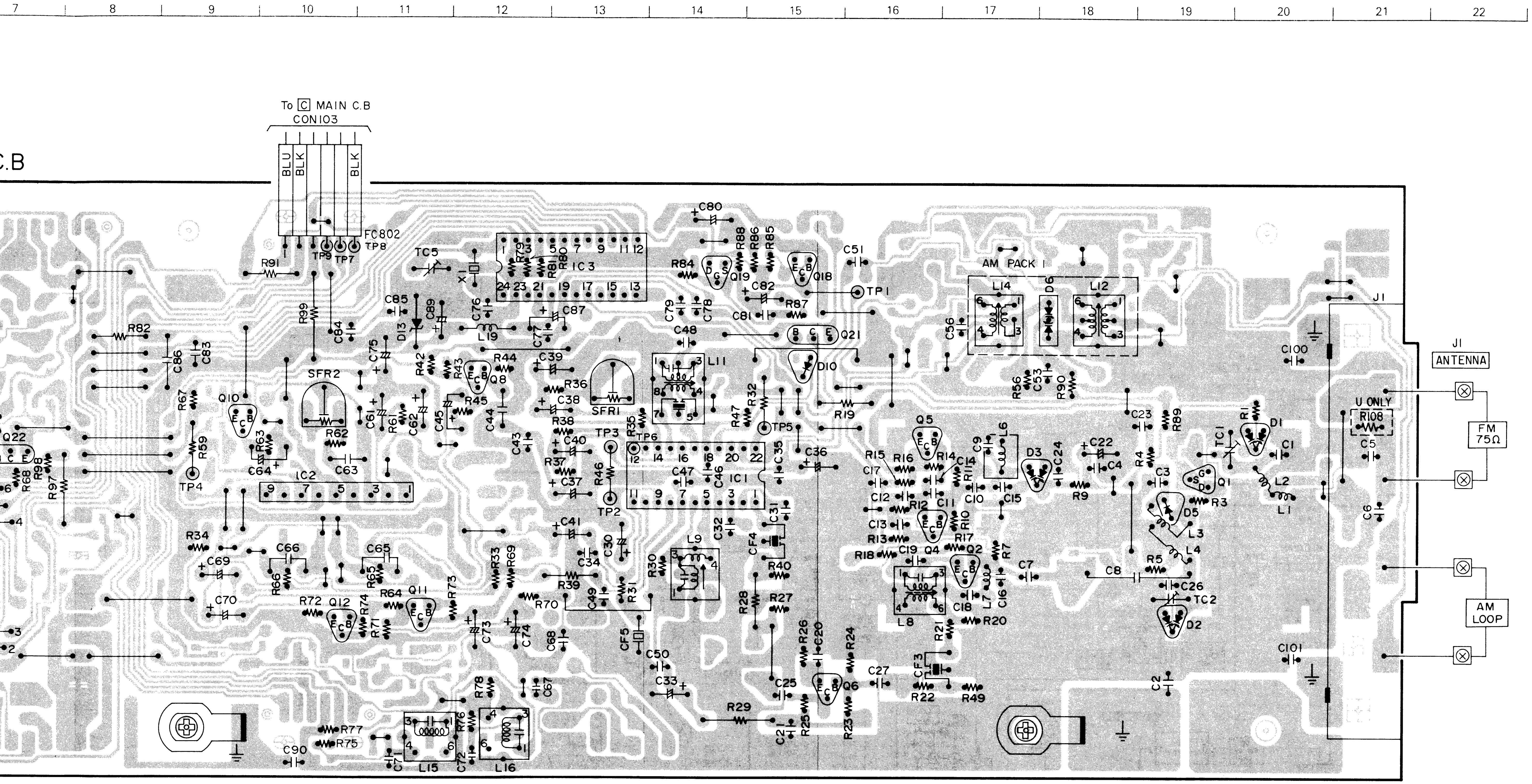
BLOCK DIAGRAM – 2 (RX – N55 : E, K, Z MODELS)


J201
MIC
RCH
IC201
NJM4558L
MIC AMP
VR202
MIX MIC
IC201
NJM4558L
BUFFER
J1-1
AUDIO IN
J1
DAT/VIDEO1
J1-3
VIDEO IN
J2-1
AUDIO IN
J2
VIDEO2
J2-3
VIDEO IN
CD R
CD L
CD GND
REC R
REC L
TAPE R
TAPE L
TAPE GND
REMOTE
I/O-1
D-GND
VM
I/O-2
I/O-3
I/O-4
J6
CD DECK
FROM FD-N55
IC305
BU4051B
FUNCTION SW
VIDEO1/DAT
VIDEO2
CD
TP
TU
OUT
IC309
M5218AL
BUFFER
IC310
M5218AL
IC310
L-R
IC310
LPF
HPF
IC311
M5218AL
MIX
IC307
TC4053BP
VOCAL FADER
CONTROL
IC306
M5218AL
MIC MIX
AMP
IC701
XR-C5424BP
BBE
Q341
SW
Q51~54
BBE
CONTROL
IC704
LA3607
GE
IN1
IN2
OUT
15K 6K 2.5K 1K 350 150 60
IC702
NJU7305L
ELECTRICAL VR
VR701
VOLUME
IC705
VR
BUFFER
D331
D330
D305
D304
IC308
BU4094B
SIGNAL
CONTROL
GENERATOR
C (Q6) B (Q7) A (Q8) (Q4)
STB CLK DATA (Q5) A (Q2) B (Q2) ON (Q1)
L13, TC6
LW TRACKING ADJ.
L17
LW VT ADJ.
L14
MW VT ADJ.
L11
AM IF ADJ.
9V
MW/LW
LOOP
E, K: J2
Z: J1 (2/2)
Q23
SW
Q24
SW
TC6
VT
L12
L12, TC4
MW TRACKING
ADJ.
TC4
Q9
AM RF
AMP
TP2
TP3
MIX OUT
AM IF IN
AM OSC
REG
AM RF
IC1
LA1265G
AM RF IF DET
FM TV IF DET
IF UN
FM OUT
AM OSC
OUT
TUNE
Q8
AM AF
AMP
Q7
FM AF
AMP
TP5
E, K ONLY
CF4
CF3
Z ONLY
SFR1
LIGHT ON
TUN LED
ADJ
L9
DC BALANCE
ADJ
Z
ONLY
L18
ANTI
BIRDIE
FILTER
E, K ONLY
L15
LPF
Q11
AMP
IN
L OUT
IC2
TA7343AP
FM MPX
ST/BIL
TP4
SFR2
+9V
VCO
ADJ.
Q10
MONO/ST
SW
FM IF ADJ.
CF2
Q6
FM IF
AMP
L8
FM IFT
Q2
MIX
E, K ONLY
J1 (2/2)
FM75Ω
J1 (1/2)
FM75Ω
(COAXIAL)
L2
Q1
RF
AMP
L3 L4
VT
TC1
FM+B
TC2
E, K ONLY
L5
TC3
Z ONLY
EXCEPT Z Z ONLY
L2, 4 L2, 4, 3
TC1, 2 TC1, 2, 3
FM TRACKING ADJ.
CF1
J1(1/2)
FM75Ω
Z ONLY
Q3
FM OSC
BUFFER
Z ONLY
L6
TP1
FM+B
Q21
BAND
SW
AM +B
Q25
BAND
SW
Q22
REG
VM
Q4, 5
FM OSC
Q18, 19
PLL LPF
VCC
L6
FM VT ADJ.
X501
7.2MHz
TC501
CLOCK
ADJ
AM IN
X IN
X OUT
FM-L
MW-L
AUTO-H
IC3
LC7218
PLL
FM IN
EO
CLK
DATA
CE
T-BASE
IC51
XR1091
SPEANA
15K
6K
2.5K
1K
350
150
60
INR
IC52
HD14051BP
A/D CONTROL
BPF&SWITCH
KEY MATRIX
SW150~159
9~11
P3~5
FL101
BJ0326GK
DISPLAY
P1~18
1G~12G
Q101
FL DRIVER
FIL1
FIL2
KEY MATRIX
SW1 14
SW17 23
SW25 30
SW31 34
O.SI (CD)
I.SI (CD)
I.CLK (CD)
I.SL (CD)
I.SPEANA
P1
P18
1G
12G
O.POWER
I.KEY1 (A/D)
I.KEY2 (A/D)
I.KEY3 (A/D)
I.TRAY OPEN
I.TUNE
O.CLK (TU)
I.ST/BIL
O.PLL CE
I.T.BASE
O.MUTE
O.GEQ.CE
O.STB
O.CLK (AMP)
O.OE
IC101
LC866012A
SYSTEM
CONTROL
O.DATA
I.HOLD
RESET
I.RMC
Q102
RESET
IC53
SBX1610
-52
VDD
REMOTE
SENSOR
QS
STB
CLK
OE
DATA
BB.A
BBE.B
BBE
ON/OFF
VR.LED
LED TAPE
LED TUN
LED CD
LED DAT
IC71 BU4094B
CONTROL SIGNAL
GENELATOR
Q91~96
Q340
LED
DRIVE
LED
MATRIX
(INDI-
CATOR)
D91 97
QS
OE
CLK
STB
DATA
LED
VIDEO2
LED
UP/DOWN
CLOSE
OPEN
VOL
DOWN
VOL
UP
IC72 BU4094B
CONTROL SIGNAL
GENELATOR
Q29~32
TRAY MOTOR
DRIVE
M1
TRAY
MOTOR
Q33~36
VOLUME
MOTOR
DRIVE
M701
VOLUME
+VCC
Q322
CONST
VOLTAG
9V
Q752
CONST
VOLTAG
U-COM
VDD
Q81
CONST
VOLTAG
+5V
D751
CONST
VOLTAG
FIL1
FIL2
+VM
VIDEO1/DAT
VIDEO2


IC201
NJM4558L
BUFFER
IC310
M5218AL
RCH
2/2
IC310
L-R
1/2
IC310
LPF
HPF
IC311
M5218AL
MIX
IC307
TC4053BP
VOCAL FADER
CONTROL
IC306
M5218AL
MIC MIX
AMP
IC305
BU4051B
FUNCTION SW
VIDEO1/DAT
VIDEO2
CD
TP
TU
IC309
M5218AL
BUFFER
OUT
D331
D330
IC701
XR-C5424BP
BBE
Q341
SW
Q51~54
BBE
CONTROL
IC704
LA3607
GE
IN1
IN2
OUT
15K
6K
2.5K
1K
350
150
60
IC702
NJU7305L
ELECTRICAL VR
S
CLK
DI
VR701
VOLUME
IC705
VR
BUFFER
IC301
M5218AL
T-BASS
AMP
IC302
BU4052B
T-BASS BOOST
LEVEL CONTROL
D305
Q307
T-BASS
BOOST
SWITCH
D304
Q305
MUTE
Q301, 303
MUTE
IC300
STK4152Ⅱ
POWER
AMP
RCH
J5
PHONES
J4
SURROUND
SPEAKERS
L
R
J7
SPEAKERS
IC308
BU4094B
SIGNAL
CONTROL
GENERATOR
C (Q6)
B (Q7)
A (Q8)
(Q4)
STB
CLK
DATA
(Q5)
A (Q2)
B (Q2)
ON (Q1)
L15
LPF
Q11
AMP
IC2
TA7343AP
FM MPX
IN
L OUT
ST/BIL
SFR2
+9V
VCO
ADJ.
TP4
Q10
MONO/ST
SW
ONLY
Q342
SOUND
SW
IC303
TC4053BP
VIDEOSW
<VIDEO2>
<DAT/VIDEO1>
Q330
BUFFER
J3-1
AUDIO
REC OUT
J3
MONITOR
J3-3
VIDEO OUT
IC51
XR1091
SPEANA
INR
IC52
HD14051BP
A/D CONTROL
BPF&SWITCH
KEY MATRIX
SW150~159
P3~5
FL101
BJ0326GK
DISPLAY
P1~18
1G~12G
Q101
FL DRIVER
FIL1
FIL2
KEY MATRIX
SW1 14
SW17 23
SW25 30
SW31 34
IC101
LC866012A
SYSTEM
CONTROL
O.SI (CD)
I.SI (CD)
I.CLK (CD)
I.SL (CD)
I.SPEANA
O.MUTE
O.GEQ.CE
O.STB
O.CLK (AMP)
O.OE
P1
P18
1G
12G
O.DATA
O.POWER
I.HOLD
RESET
I.RMC
I.KEY1 (A/D)
I.KEY2 (A/D)
I.KEY3 (A/D)
I.TRAY OPEN
I.TUNE
O.CLK (TU)
I.ST/BIL
O.PLL CE
I.T.BASE
QS
STB
CLK
OE
DATA
BB.A
BBE.B
BBE ON/OFF
VR.LED
LED TAPE
LED TUN
LED CD
LED DAT
IC71 BU4094B
CONTROL SIGNAL
GENELATOR
Q91~96
Q340
LED
DRIVE
LED
MATRIX
(INDI-
CATOR)
D91 97
LED VIDEO2
LED UP/DOWN
CLOSE
OPEN
VOL DOWN
VOL UP
IC72 BU4094B
CONTROL SIGNAL
GENELATOR
Q29~32
TRAY MOTOR
DRIVE
M1
TRAY
MOTOR
Q33~36
VOLUME
MOTOR
DRIVE
M701
VOLUME
Q102
RESET
IC53
SBX1610
-52
VDD
REMOTE
SENSOR
TC501
CLOCK
ADJ
X501
7.2MHz
X IN
X OUT
AUTO-H
IC3
LC7218
PLL
CLK
DATA
CE
T-BASE
Q322
CONST
VOLTAGE
+VCC
Q752
CONST
VOLTAGE
9V
Q81
CONST
VOLTAGE
U-COM
VDD
D751
CONST
VOLTAGE
+5V
FIL1
FIL2
+VM
Q319, 320
OVER
CURR. DET
RCH
RST
Q310-311
326, 327
SPEAKER
SHORT DET
-VEE
Q323, 324
CONST
VOLTAGE
D311, D313
D310, D312
RY1
PT101
D320
TO
POWER
AMP
+B
-B
-VFL
Q321
CONST
VOLTAGE
D322
Q318
RELAY DRIVE
Q314-317
CONST
VOLTAGE
D317
D315
D314
D316
T.F
E, Z
AC 220V
50HZ
K
AC 240V
50HZ

WIRING – 1 (RX – N55, TUNER : HE, LH, U MODELS)

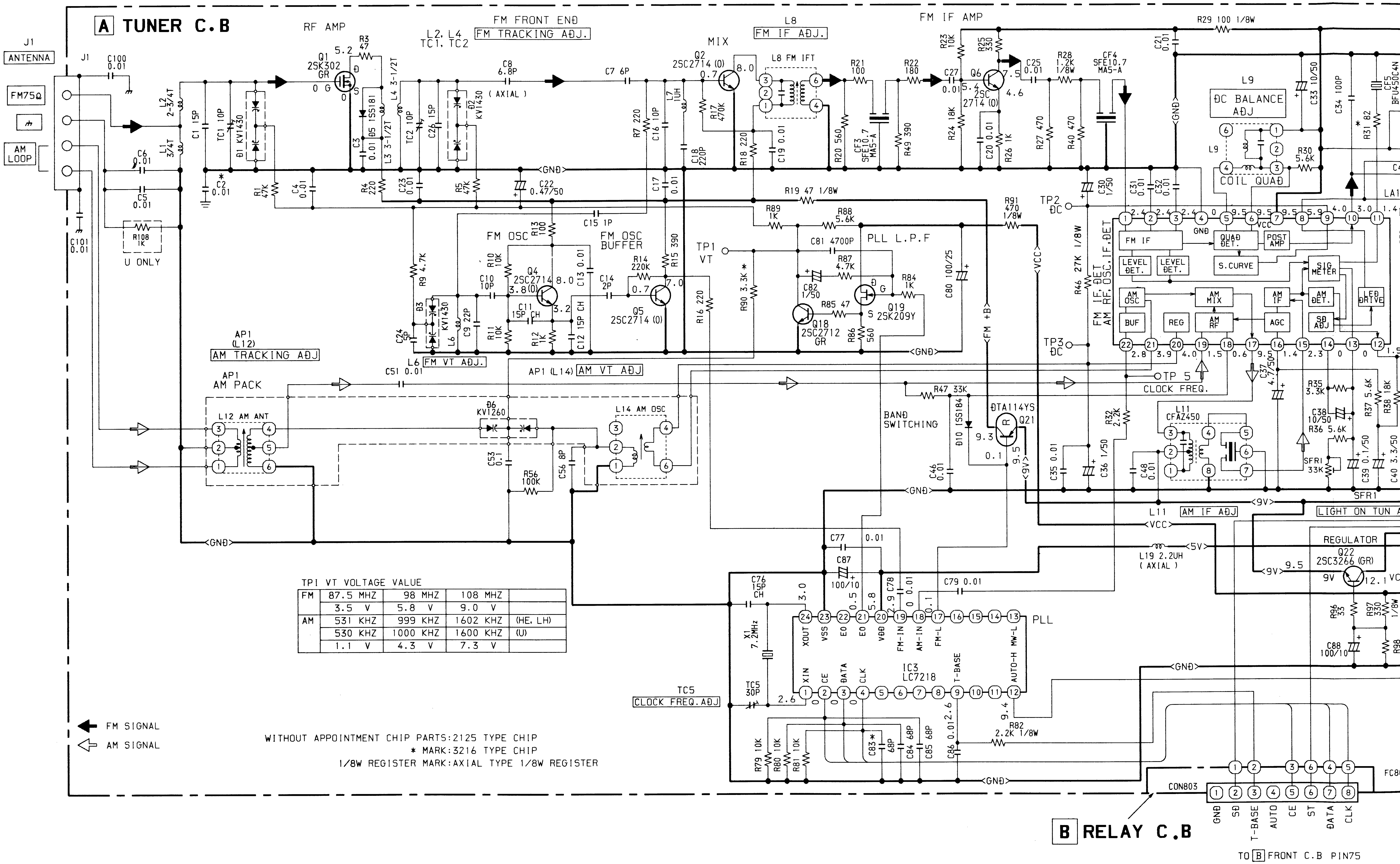

B RELAY C.B
A TUNER C.B
To C MAIN C.B
CON103
BLU
BLK
BLK
FC802
To
D FRONT C.B
PIN75
CON803
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
IC1
IC2
IC3
Q4
Q5
Q6
Q8
Q10
Q11
Q12
Q18
Q19
Q21
Q22
D10
D13
SFR1
SFR2
TC5
X1
L8
L9
L11
L15
L16
L19
CF3
CF4
CF5
R91
R82
R84
R99
R87
R19
R34
R39
R70
R29
R77
R75
C80
C51
C88
C85
C87
C48
C36
C41
C69
C70
C66
C65
C90
C27
C50
C33


7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
To C MAIN C.B
CON103
BLU
BLK
BLK
.C.B
FC802
TP8
TP9
TP7
TP1
TP2
TP3
TP4
TP5
TP6
R91
R99
C84
TC5
X1
IC3
IC2
IC1
C80
R84
Q19
R88
R86
R85
Q18
C51
C82
R87
C81
Q21
D10
C79
C78
C48
L11
C85
C89
D13
C76
L19
C77
C87
C75
R42
R43
Q8
R44
C39
R36
C38
R45
C44
C61
R61
C62
C45
SFR1
SFR2
R82
C86
C83
R67
Q10
R59
R63
C64
R62
C63
Q22
R68
R98
R97
R34
C69
C70
C66
C65
R66
R65
R64
Q11
R72
Q12
R74
R71
R73
R33
R69
R70
R39
C49
R31
C73
C74
C68
C43
R38
C40
R37
C37
R46
R35
C41
C34
C30
R30
L9
C32
C31
CF4
R40
R28
R27
R26
C20
R24
C25
Q6
C21
R25
R23
R29
CF5
C50
C33
C35
C36
R47
R32
R19
C47
C46
AM PACK 1
L14
D6
L12
C56
R56
C53
R90
C23
R89
Q5
R15
R16
R14
C14
R11
C17
C12
C13
R13
R18
R12
C11
R10
R17
Q2
C19
Q4
R7
C10
C15
C9
L6
D3
C24
C22
C4
R9
R4
C3
TC1
R1
D1
C1
L2
L1
Q1
R3
D5
L3
L4
R5
C8
C7
C16
L7
C18
R20
L8
R21
CF3
R22
R49
C27
C26
TC2
D2
C2
C100
C101
J1
J1
ANTENNA
U ONLY
R108
C5
C6
FM
75Ω
AM
LOOP
R77
R75
C90
C71
L15
C72
R76
R78
L16
C67

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

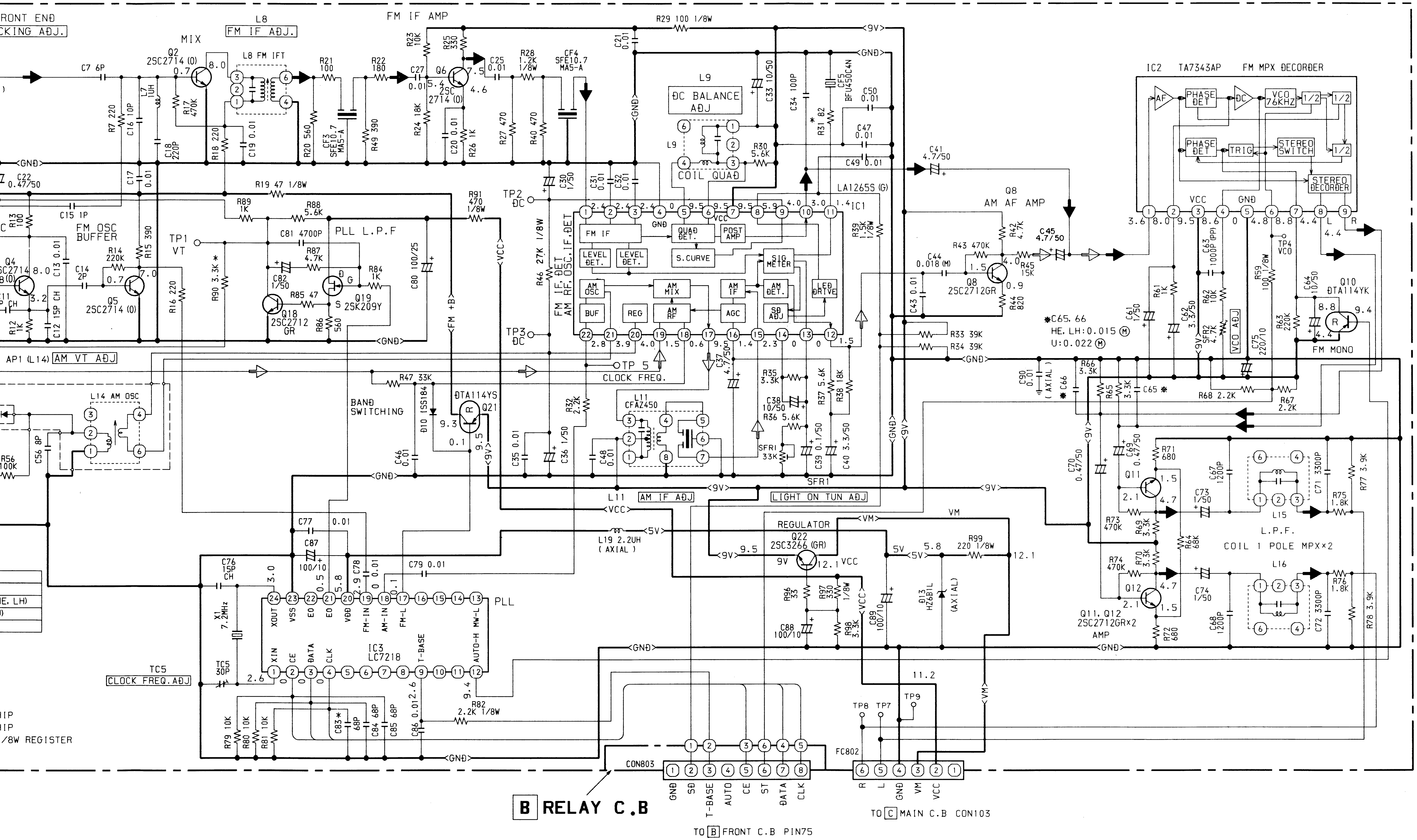
SCHEMATIC DIAGRAM – 1 (RX – N55, TUNER : HE, LH, U MODELS)


A TUNER C.B
J1 ANTENNA
FM75Ω
AM LOOP
U ONLY
RF AMP
Q1 2SK302 GR
FM FRONT END
L2, L4 TC1, TC2 FM TRACKING ADJ.
MIX
Q2 2SC2714 (O)
L8 FM IF ADJ.
L8 FM IFT
FM IF AMP
Q6 2SC 2714 (O)
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
L9 DC BALANCE ADJ
COIL QUAD
FM OSC
Q4 2SC2714 (O)
FM OSC BUFFER
Q5 2SC2714 (O)
TP1 VT
PLL L.P.F
Q18 2SC2712 GR
Q19 2SK209Y
TP2 DC
TP3 DC
FM IF, DET
AM RF, OSC, IF, DET
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
TP 5
CLOCK FREQ.
L6 FM VT ADJ.
AP1 (L12) AM TRACKING ADJ
AP1 AM PACK
L12 AM ANT
D6 KV1260
AP1 (L14) AM VT ADJ
L14 AM OSC
BAND SWITCHING
DTA114YS Q21
L11 CFAZ450
SFR1
L11 AM IF ADJ
LIGHT ON TUN
REGULATOR Q22 2SC3266 (GR)
L19 2.2UH (AXIAL)
IC3 LC7218
PLL
X1 7.2MHz
TC5 CLOCK FREQ.ADJ
CON803
B RELAY C.B
GND SD T-BASE AUTO CE ST DATA CLK
TO B FRONT C.B PIN75
FM SIGNAL
AM SIGNAL

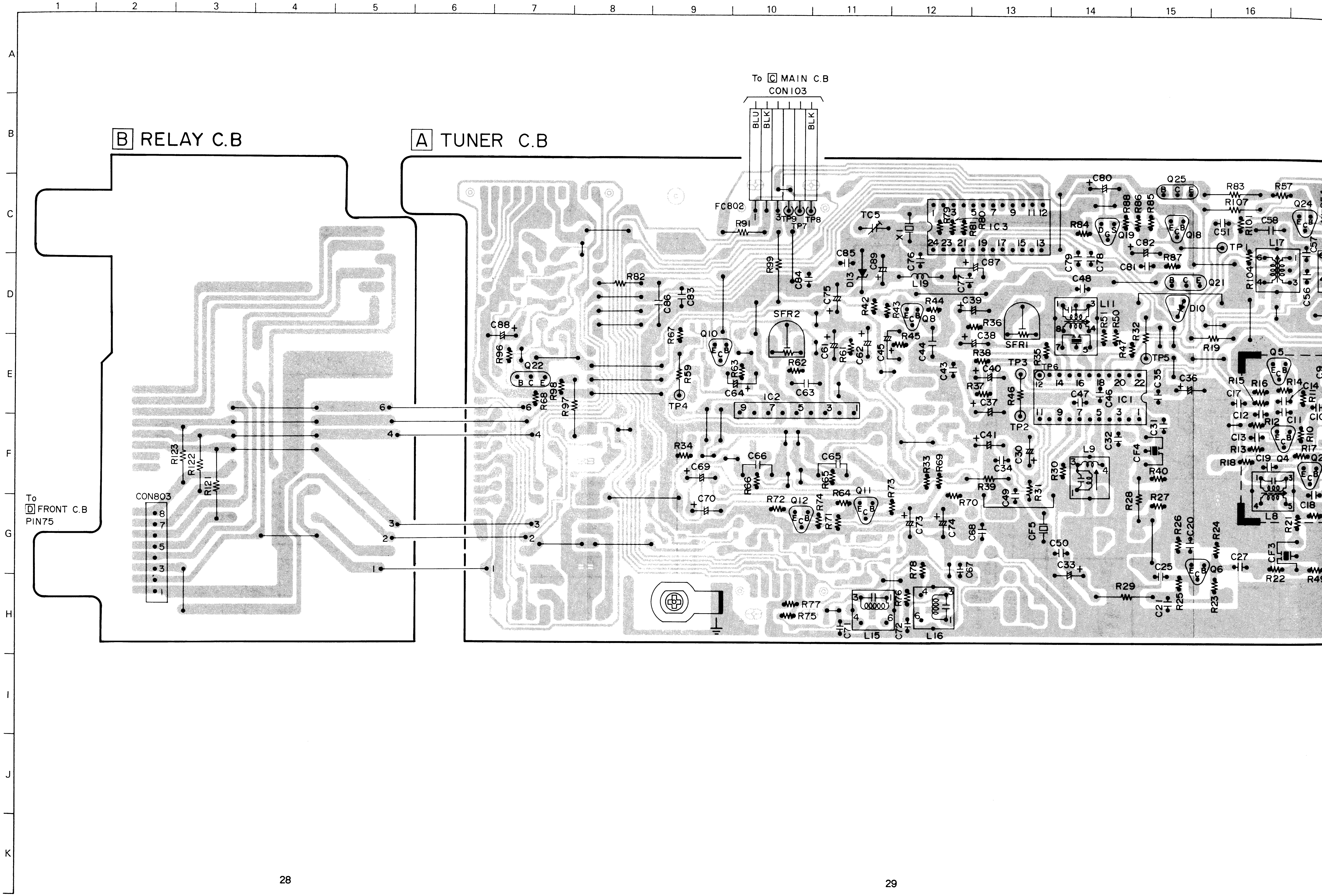
TP1 VT VOLTAGE VALUE

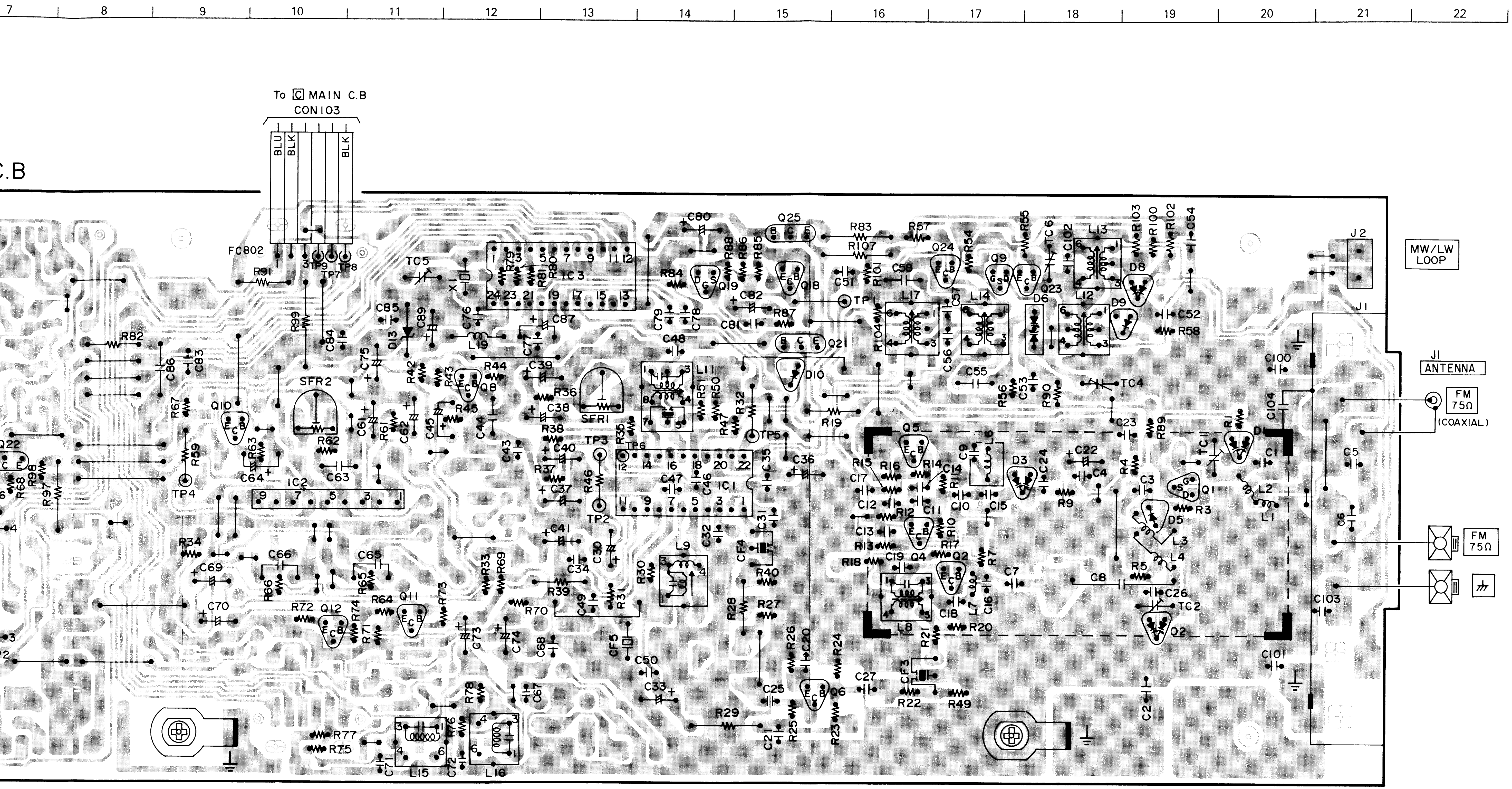
FM	87.5 MHZ	98 MHZ	108 MHZ	
	3.5 V	5.8 V	9.0 V	
AM	531 KHZ	999 KHZ	1602 KHZ	(HE, LH)
	530 KHZ	1000 KHZ	1600 KHZ	(U)
	1.1 V	4.3 V	7.3 V	

WITHOUT APPOINTMENT CHIP PARTS:2125 TYPE CHIP
* MARK:3216 TYPE CHIP
1/8W REGISTER MARK:AXIAL TYPE 1/8W REGISTER


RONT END
CKING ADJ.
L8
FM IF ADJ.
MIX
FM IF AMP
Q2 2SC2714 (O)
L8 FM IFT
R29 100 1/8W
<9V>
<GND>
L9
DC BALANCE ADJ
COIL QUAD
LA1265S (G) IC1
IC2 TA7343AP FM MPX DECORDER
AF
PHASE DET
DC
VCO 76KHZ
1/2
TRIG
STEREO SWITCH
STEREO DECORDER
VCC
GND
Q8 AM AF AMP
2SC2712GR
Q10 DTA114YK
FM MONO
FM OSC BUFFER
Q5 2SC2714 (O)
Q4
TP1 VT
PLL L.P.F
Q18 2SC2712 GR
Q19 2SK209Y
TP2 DC
TP3 DC
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
FM IF.DET
AM RF.OSC.IF.DET
AP1 (L14) AM VT ADJ
L14 AM OSC
BAND SWITCHING
DTA114YS Q21
TP 5 CLOCK FREQ.
L11 CFAZ450
SFR1
L11 AM IF ADJ
LIGHT ON TUN ADJ
*C65, 66 HE, LH: 0.015 (M) U: 0.022 (M)
TP4 VCO
VCO ADJ
Q11
Q12
Q11, Q12 2SC2712GR×2 AMP
L15
L16
L.P.F. COIL 1 POLE MPX×2
REGULATOR Q22 2SC3266 (GR)
D13 HZ6BIL (AXIAL)
VM
L19 2.2UH (AXIAL)
C76 15P CH
X1 7.2MHz
IC3 LC7218
PLL
XOUT VSS EO EO VDD FM-IN AM-IN FM-L AUTO-H MW-L
XIN CE DATA CLK T-BASE
TC5 CLOCK FREQ. ADJ
TC5 30P
R82 2.2K 1/8W
TP8 TP7 TP9
FC802
CON803
GND SD T-BASE AUTO CE ST DATA CLK
R L GND VM VCC
B RELAY C.B
TO B FRONT C.B PIN75
TO C MAIN C.B CON103
IP
IP
/8W REGISTER
E, LH)
)

WIRING – 2 (RX – N55, TUNER : E, K, MODELS)


B RELAY C.B
A TUNER C.B
To C MAIN C.B
CON103
BLU
BLK
BLK
FC802
To D FRONT C.B PIN75
CON803
R121
R122
R123
IC1
IC2
IC3
Q4
Q5
Q6
Q8
Q10
Q11
Q12
Q18
Q19
Q21
Q22
Q24
Q25
D10
D13
SFR1
SFR2
TC5
X1
L8
L9
L11
L15
L16
L17
L19
CF3
CF4
CF5
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9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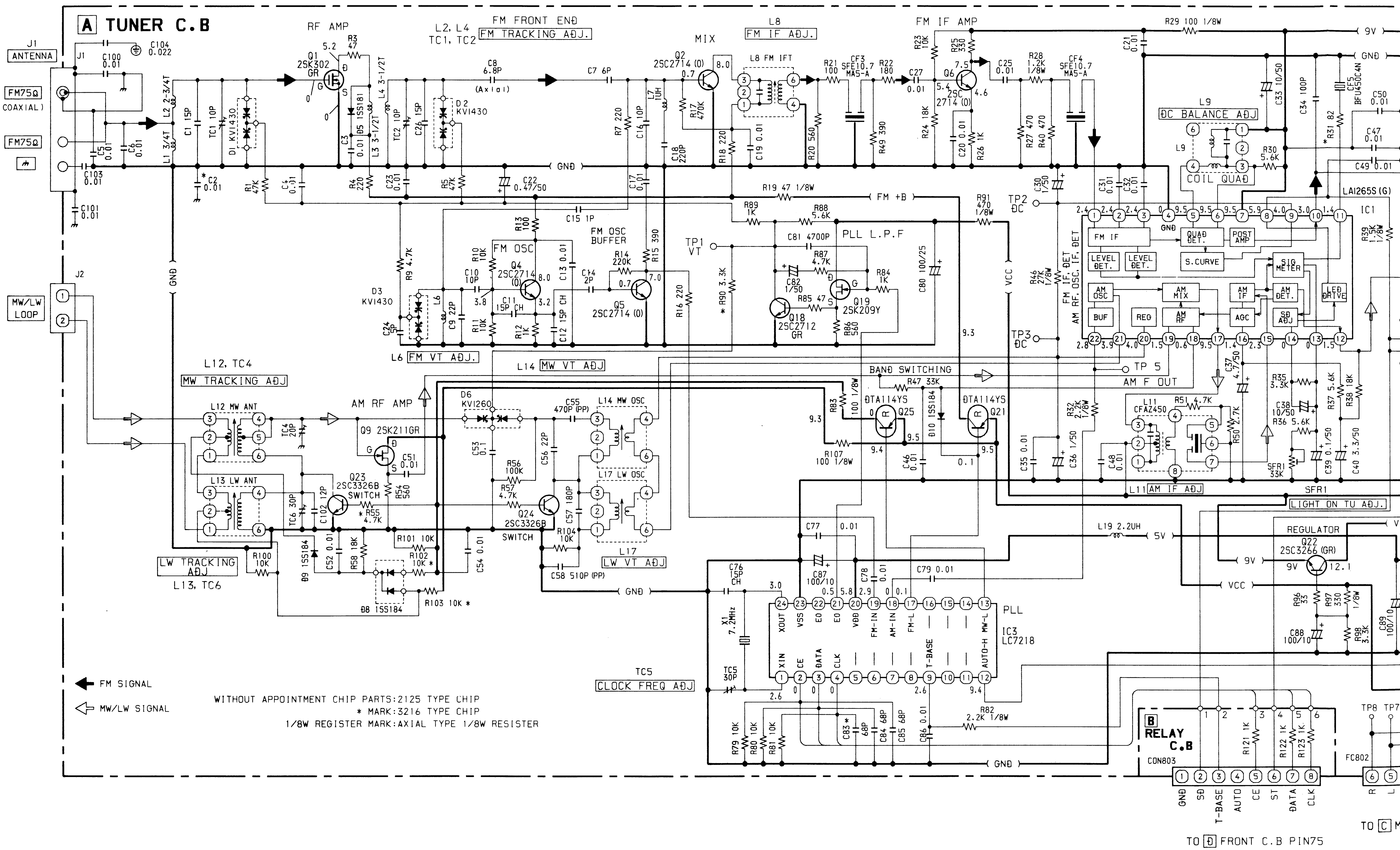
15
16
17
18
19
20
21
22
C.B
To C MAIN C.B
CON103
BLU
BLK
BLK
FC802
TP9
TP7
TP8
R91
R99
C84
R82
C86
C83
TC5
X1
IC3
R79
R81
R80
C85
C89
D13
C76
L19
C87
C77
C75
R42
R43
Q8
R44
C39
R36
C38
R45
C61
R61
C62
C45
C44
R67
Q10
SFR2
R62
R63
C64
C63
IC2
Q22
R98
R68
R97
R59
TP4
R34
C69
C70
C66
R66
C65
R65
R72
Q12
R74
R71
R64
Q11
R73
C73
C74
R33
R69
R70
C68
R78
C67
R76
R77
R75
C71
L15
C72
L16
C80
Q25
R88
R86
R85
R84
Q19
Q18
C82
R87
C79
C78
C81
C48
L11
R51
R50
SFR1
R38
C40
C43
R37
C37
TP3
R46
TP2
R35
TP6
C47
C46
IC1
C35
R32
R47
TP5
Q21
D10
R19
C36
C31
C32
C4
R40
C41
C34
C30
R39
C49
R31
R30
L9
R28
R27
CF5
C50
C33
R26
C20
R24
C25
Q6
R29
C21
R25
R23
R83
R107
R57
R54
Q24
R55
TC6
C102
L13
R103
R100
R102
C54
C51
R101
C58
TP1
L17
C57
L14
Q9
Q23
D6
L12
D8
D9
C52
R58
R104
C56
C55
R56
C53
R90
TC4
Q5
R15
R16
R14
C14
R11
C9
L6
D3
C24
C22
C4
C23
R89
R4
R1
D1
TC11
C17
C12
R12
C11
C10
C15
R9
C3
Q1
R3
C13
R13
R10
R17
Q2
R18
C19
Q4
R7
D5
L3
L4
L2
L1
C7
C8
R5
C26
TC2
C18
L7
C16
L8
R20
D2
R21
C27
CF3
R22
R49
C2
C100
C104
C1
C5
C6
C103
C101
J2
J1
MW/LW
LOOP
J1
ANTENNA
FM
75Ω
(COAXIAL)
FM
75Ω

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

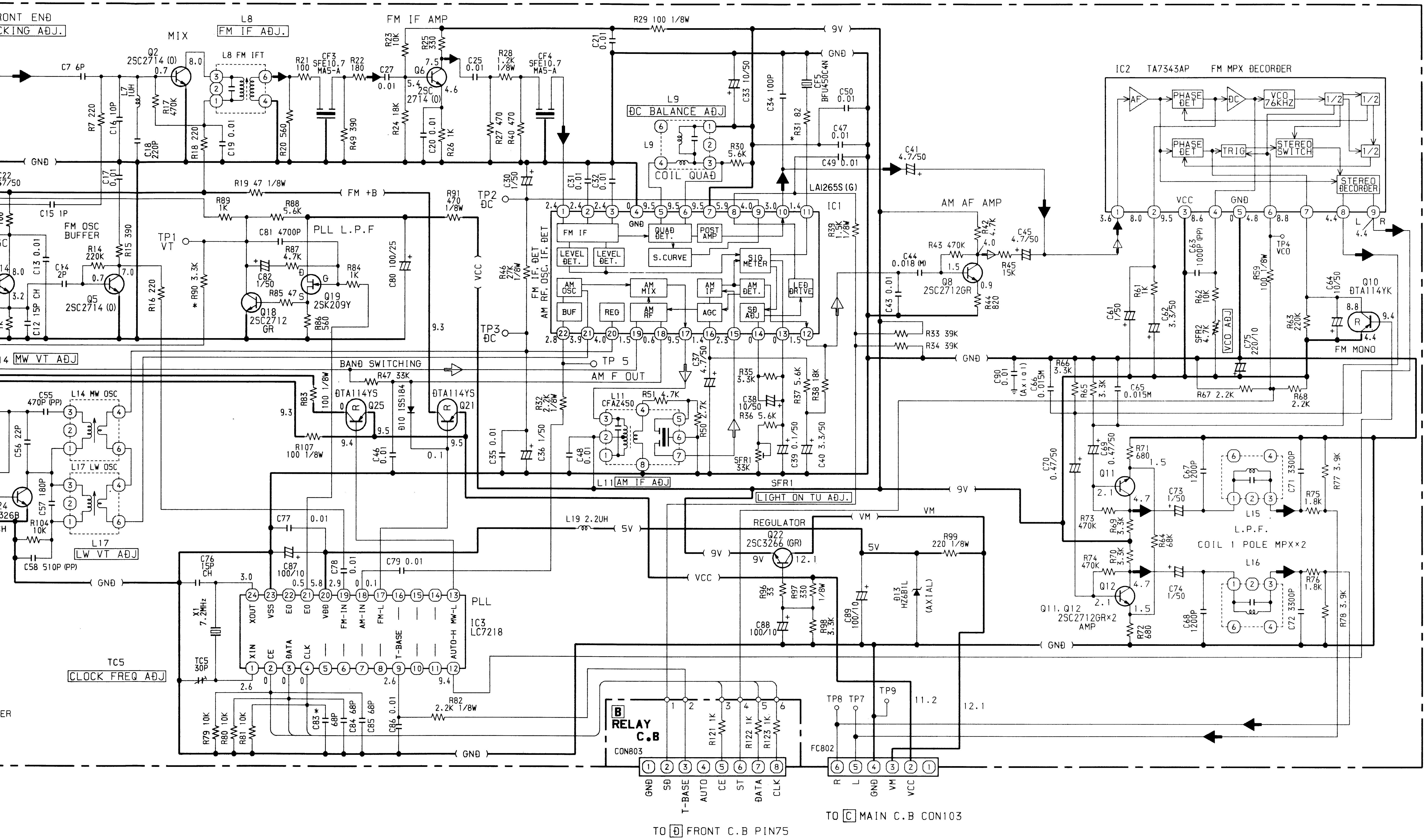
(プリント基板内のケミコンの極性表示は⊖表示です。)

SCHEMATIC DIAGRAM – 2 (RX – N55, TUNER : E, K, MODELS)

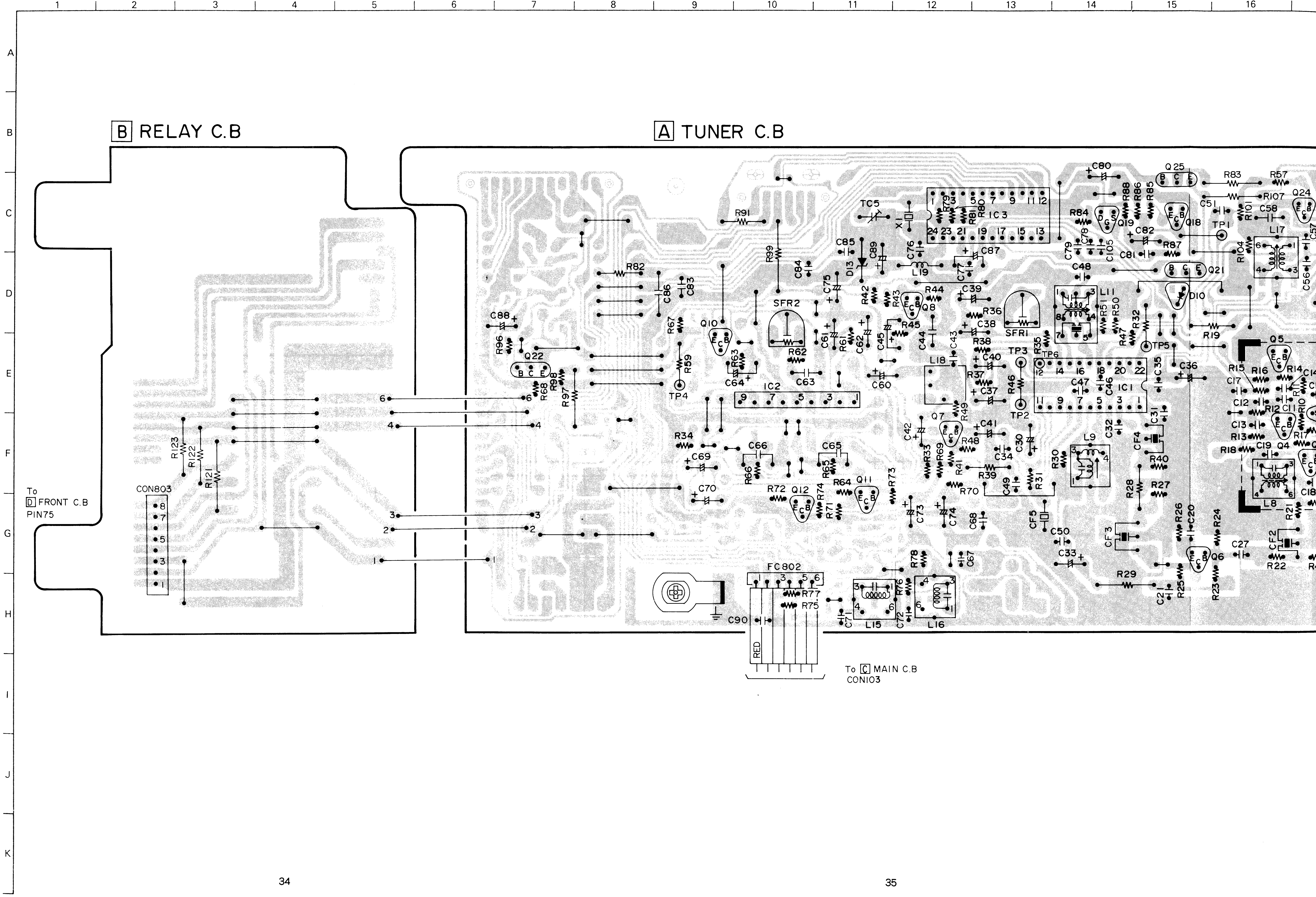


A TUNER C.B
J1 ANTENNA
FM75Ω COAXIAL)
FM75Ω
MW/LW LOOP
J1
J2
RF AMP
Q1 2SK302 GR
L2, L4 TC1, TC2
FM FRONT END
FM TRACKING ADJ.
MIX
Q2 2SC2714 (O)
L8
FM IF ADJ.
L8 FM IFT
FM IF AMP
Q6 2SC2714 (O)
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
CF5 BFU450C4N
R29 100 1/8W
9V
GND
L9
DC BALANCE ADJ
COIL QUAD
LA1265S (G)
IC1
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
FM IF, DET
AM RF, OSC, IF, DET
TP2 DC
TP3 DC
TP 5
AM F OUT
TP1 VT
FM +B
VCC
FM OSC
Q4 2SC2714 (O)
FM OSC BUFFER
Q5 2SC2714 (O)
PLL L.P.F
Q18 2SC2712 GR
Q19 2SK209Y
D3 KV1430
L6 FM VT ADJ.
L12, TC4
MW TRACKING ADJ
L12 MW ANT
L13 LW ANT
LW TRACKING ADJ
L13, TC6
AM RF AMP
Q9 2SK211GR
Q23 2SC3326B SWITCH
Q24 2SC3326B SWITCH
D6 KV1260
L14 MW VT ADJ
L14 MW OSC
L17 LW OSC
L17 LW VT ADJ
D8 1SS184
D9 1SS184
BAND SWITCHING
DTA114YS Q25
DTA114YS Q21
D10 1SS184
L11 CFAZ450
L11 AM IF ADJ
SFR1
LIGHT ON TU ADJ.
L19 2.2UH
5V
REGULATOR
Q22 2SC3266 (GR)
PLL
IC3 LC7218
X1 7.2MHz
TC5
CLOCK FREQ ADJ
XOUT VSS EO EO VDD FM-IN AM-IN FM-L MW-L
XIN CE DATA CLK T-BASE AUTO-H
B RELAY C.B
CON803
GND SD T-BASE AUTO CE ST DATA CLK
FC802
TP8 TP7
TO D FRONT C.B PIN75
TO C M
FM SIGNAL
MW/LW SIGNAL

WITHOUT APPOINTMENT CHIP PARTS:2125 TYPE CHIP
* MARK:3216 TYPE CHIP
1/8W REGISTER MARK:AXIAL TYPE 1/8W RESISTER

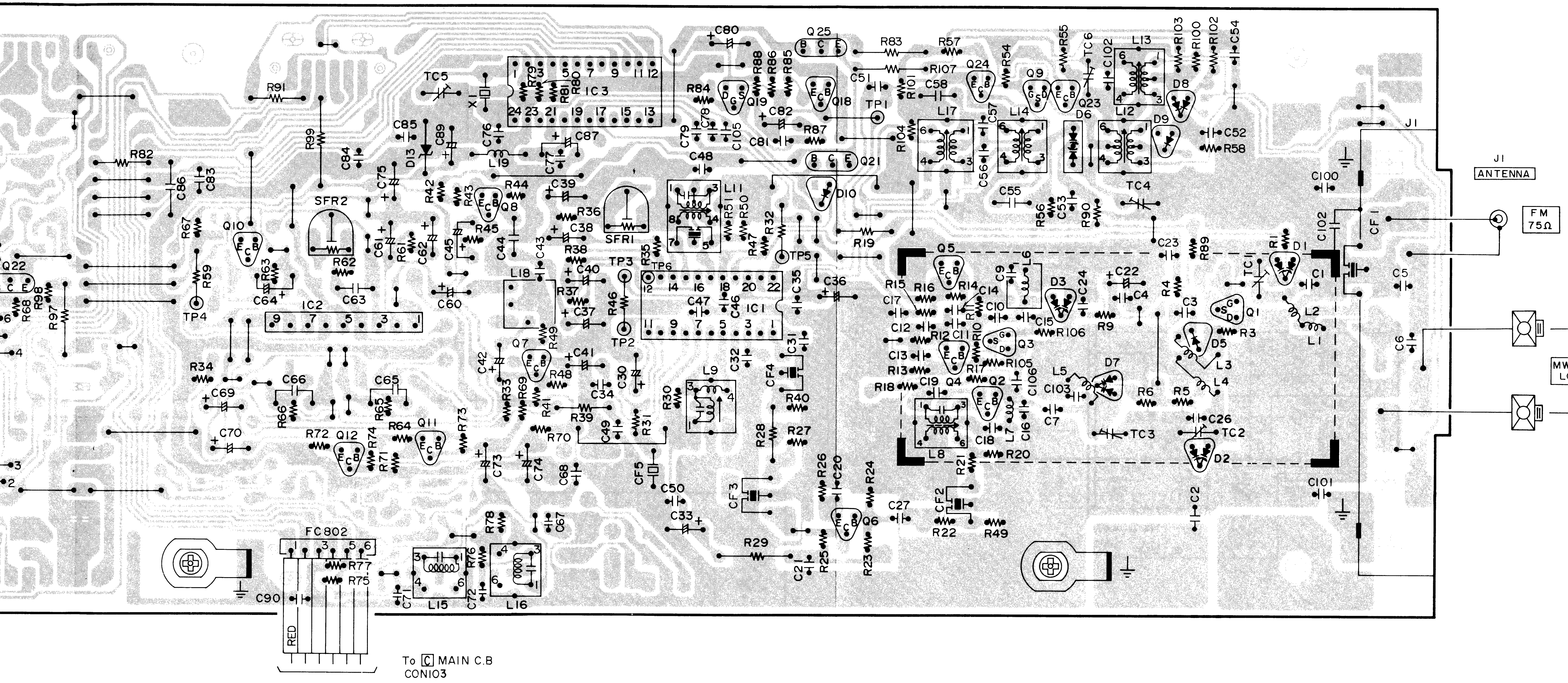

FRONT END
TRACKING ADJ.
MIX
L8
FM IF ADJ.
L8 FM IFT
Q2 2SC2714 (O)
FM IF AMP
Q6 2SC2714 (O)
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
R29 100 1/8W
9V
GND
FM +B
L9
DC BALANCE ADJ
COIL QUAD
CF5 BFU450C4N
LA1265S (G)
IC1
FM IF
QUAD DET.
POST AMP
LEVEL DET.
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
FM IF, DET
AM RF, OSC, IF, DET
TP2 DC
TP3 DC
TP1 VT
TP 5
AM F OUT
BAND SWITCHING
FM OSC BUFFER
Q5 2SC2714 (O)
PLL L.P.F
Q18 2SC2712 GR
Q19 2SK209Y
DTA114YS Q25
DTA114YS Q21
MW VT ADJ
L14 MW OSC
L17 LW OSC
L17
LW VT ADJ
L11 CFAZ450
L11 AM IF ADJ
SFR1
LIGHT ON TU ADJ.
L19 2.2UH
5V
VCC
REGULATOR
Q22 2SC3266 (GR)
VM
D13 HZ6B1L (AXIAL)
X1 7.2MHz
TC5 30P
TC5
CLOCK FREQ ADJ
PLL
IC3 LC7218
XOUT
VSS
EO
EO
VDD
FM-IN
AM-IN
FM-L
T-BASE
AUTO-H
MW-L
XIN
CE
DATA
CLK
AM AF AMP
Q8 2SC2712GR
IC2 TA7343AP FM MPX DECORDER
AF
PHASE DET
DC
VCO 76KHZ
1/2
TRIG
STEREO SWITCH
STEREO DECORDER
VCC
GND
L
R
TP4 VCO
VCO ADJ
SFR2 4.7K
Q10 DTA114YK
FM MONO
Q11
Q12
Q11, Q12 2SC2712GR×2 AMP
L15
L16
L.P.F.
COIL 1 POLE MPX×2
B RELAY C.B
CON803
FC802
TP8
TP7
TP9
GND
SD
T-BASE
AUTO
CE
ST
DATA
CLK
R
L
GND
VM
VCC
TO C MAIN C.B CON103
TO D FRONT C.B PIN75

WIRING – 3 (RX – N55, TUNER : Z MODEL)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
B RELAY C.B
A TUNER C.B
To
D FRONT C.B
PIN75
CON803
R121
R122
R123
Q22
R96
R97
R98
R68
C88
R82
C86
C83
R67
R59
TP4
R91
R99
Q10
R63
C64
SFR2
R62
IC2
C63
C84
C75
C61
R61
C62
C45
R45
TC5
X1
C85
D13
C89
C76
L19
C87
C77
R42
R43
Q8
R44
C39
R36
C38
C44
C43
R38
C40
L18
R37
C37
R49
C60
IC3
R79
R81
R80
C80
Q25
R88
R86
R85
R84
Q19
C82
R87
C81
C79
C78
C105
C48
Q18
Q21
D10
R83
R57
R107
C51
R101
C58
Q24
TP1
L17
R104
C56
SFR1
TP3
TP2
R46
R35
TP6
L11
R51
R50
R47
R32
TP5
R19
IC1
C47
C46
C35
C36
Q5
R15
R16
R14
C17
C12
R12
C11
C13
R13
R10
R17
R18
C19
Q4
L8
R21
CF2
R22
C27
R34
C69
C70
C66
R66
C65
R65
R64
Q11
R72
Q12
R74
R71
R73
C42
Q7
R33
R69
R48
R41
C41
C34
R39
C30
R70
C49
R31
R30
L9
C32
CF4
C31
R40
R28
R27
C73
C74
C68
CF5
C50
C33
CF3
R26
C20
R24
Q6
R29
C21
R25
R23
R78
C67
FC802
R77
R75
C90
RED
C7
L15
R76
C72
L16
To C MAIN C.B
CON103

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

A TUNER C.B

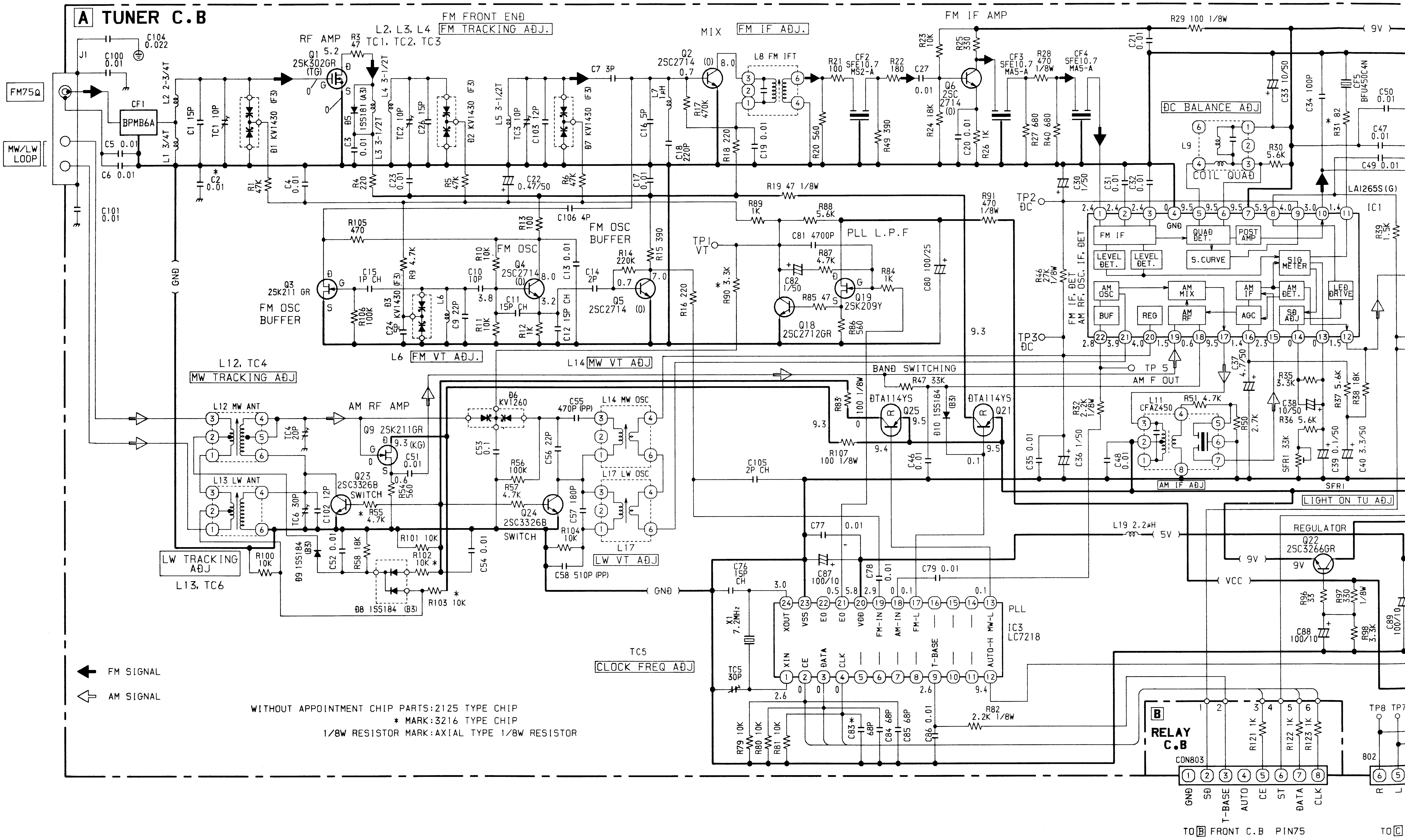


J1
ANTENNA
FM
75Ω
MW/LW
LOOP
CF1
C100
C101
C102
D1
D2
D3
D5
D6
D7
D8
D9
D10
D13
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q18
Q19
Q21
Q22
Q23
Q24
Q25
IC1
IC2
IC3
SFR1
SFR2
TP1
TP2
TP3
TP4
TP5
TP6
TC1
TC2
TC3
TC4
TC5
TC6
L1
L2
L3
L4
L5
L6
L7
L8
L9
L11
L12
L13
L14
L15
L16
L17
L18
L19
CF2
CF3
CF4
CF5
X1
FC802
RED
To C MAIN C.B
CON103

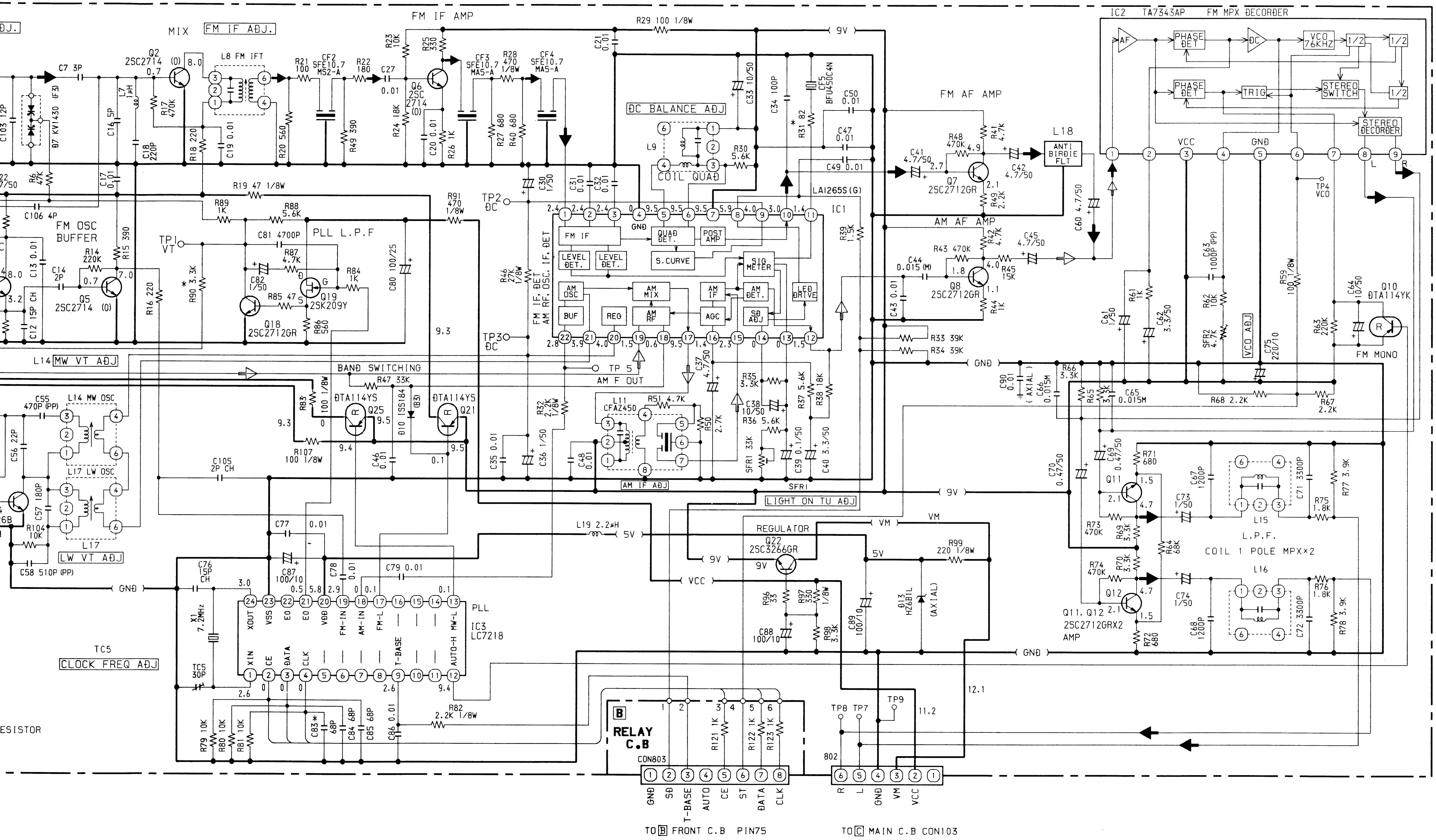
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 3 (RX – N55, TUNER : Z MODEL)


A TUNER C.B
FM75Ω
MW/LW LOOP
J1
C104 0.022
C100 0.01
CF1 BPMB6A
C5 0.01
C6 0.01
C101 0.01
RF AMP
Q1 2SK302GR (TG)
FM FRONT END
L2, L3, L4 FM TRACKING ADJ.
TC1, TC2, TC3
MIX
FM IF ADJ.
Q2 2SC2714
L8 FM IFT
FM IF AMP
Q6 2SC2714
CF2 SFE10.7 MS2-A
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
R29 100 1/8W
9V
DC BALANCE ADJ
L9
COIL QUAD
LA1265S(G)
IC1
CF5 BFU450C4N
TP2 DC
TP1 VT
TP3 DC
TP 5
AM F OUT
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
FM IF, DET
AM RF, OSC, IF, DET
FM OSC
Q4 2SC2714
FM OSC BUFFER
Q5 2SC2714
Q3 2SK211 GR
PLL L.P.F
Q19 2SK209Y
Q18 2SC2712GR
L6 FM VT ADJ.
L14 MW VT ADJ
L12, TC4
MW TRACKING ADJ
L12 MW ANT
L13 LW ANT
AM RF AMP
Q9 2SK211GR
Q23 2SC3326B SWITCH
Q24 2SC3326B SWITCH
D6 KV1260
L14 MW OSC
L17 LW OSC
L17 LW VT ADJ
LW TRACKING ADJ
L13, TC6
D8 1SS184 (B3)
D9 1SS184 (B3)
BAND SWITCHING
DTA114YS Q25
DTA114YS Q21
L11 CFAZ450
AM IF ADJ
SFR1
LIGHT ON TU ADJ
L19 2.2μH
5V
REGULATOR
Q22 2SC3266GR
VCC
GND
TC5 CLOCK FREQ ADJ
X1 7.2MHz
PLL
IC3 LC7218
XOUT
VSS
EO
VDD
FM-IN
AM-IN
FM-L
MW-L
XIN
CE
DATA
CLK
T-BASE
AUTO-H
B RELAY C.B
CON803
GND
SD
T-BASE
AUTO
CE
ST
DATA
CLK
TO B FRONT C.B PIN75
TP8
TP7
802
TO C
FM SIGNAL
AM SIGNAL

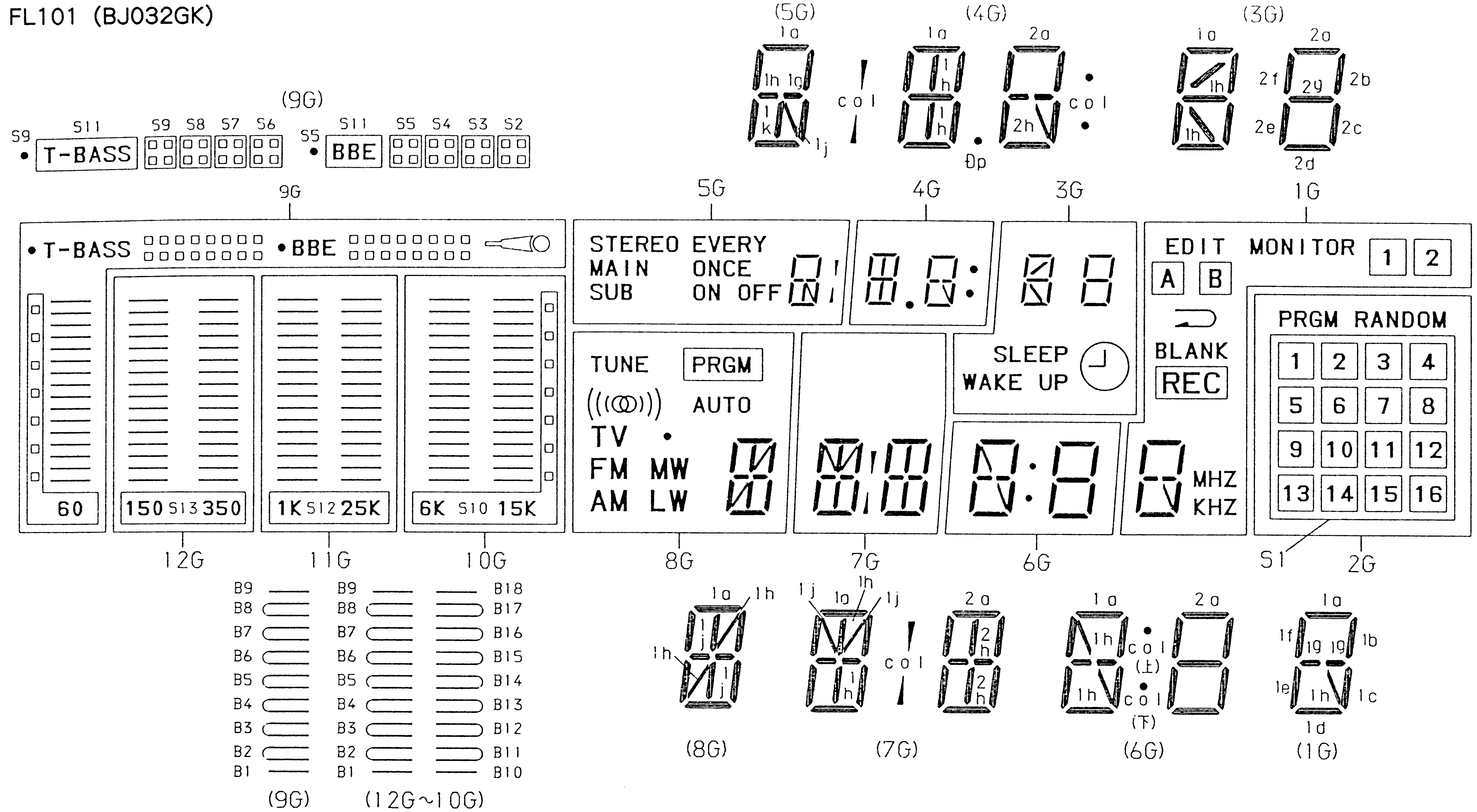
WITHOUT APPOINTMENT CHIP PARTS:2125 TYPE CHIP
* MARK:3216 TYPE CHIP
1/8W RESISTOR MARK:AXIAL TYPE 1/8W RESISTOR



FM IF AMP
MIX
FM IF ADJ.
L8 FM IFT
Q2 2SC2714
Q6 2SC2714
CF2 SFE10.7 MS2-A
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
R29 100 1/8W
9V
DC BALANCE ADJ
L9
COIL QUAD
CF5 BFU450C4N
LA1265S(G)
IC1
FM IF
QUAD DET.
POST AMP
LEVEL DET.
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
TP2 DC
TP3 DC
TP5
AM F OUT
L11 CFAZ450
AM IF ADJ
SFR1
LIGHT ON TU ADJ
FM AF AMP
Q7 2SC2712GR
AM AF AMP
Q8 2SC2712GR
L18
ANTI BIRDIE FLT
IC2 TA7343AP FM MPX DECORDER
AF
PHASE DET
DC
VCO 76KHZ
1/2
TRIG
STEREO SWITCH
STEREO DECORDER
VCC
GND
TP4 VCO
SFR2
VCO ADJ
Q10 DTA114YK
FM MONO
FM OSC BUFFER
Q5 2SC2714
TP1 VT
PLL L.P.F
Q19 2SK209Y
Q18 2SC2712GR
BAND SWITCHING
DTA114YS Q25
DTA114YS Q21
L14 MW VT ADJ
L14 MW OSC
L17 LW OSC
L17
LW VT ADJ
TC5
CLOCK FREQ ADJ
X1 7.2MHz
PLL
IC3 LC7218
XOUT VSS EO EO VDD FM-IN AM-IN FM-L MW-L
XIN CE DATA CLK T-BASE AUTO-H
L19 2.2μH
5V
VCC
GND
REGULATOR
Q22 2SC3266GR
VM
D13 HZ6B1L (AXIAL)
Q11
Q12
Q11, Q12 2SC2712GRX2 AMP
L15
L.P.F.
COIL 1 POLE MPX×2
L16
B RELAY C.B
CON803
GND SD T-BASE AUTO CE ST DATA CLK
TO B FRONT C.B PIN75
802
TP8 TP7 TP9
R L GND VM VCC
TO C MAIN C.B CON103
ESISTOR

GRID ASSIGNMENT

FL101 (BJ032GK)

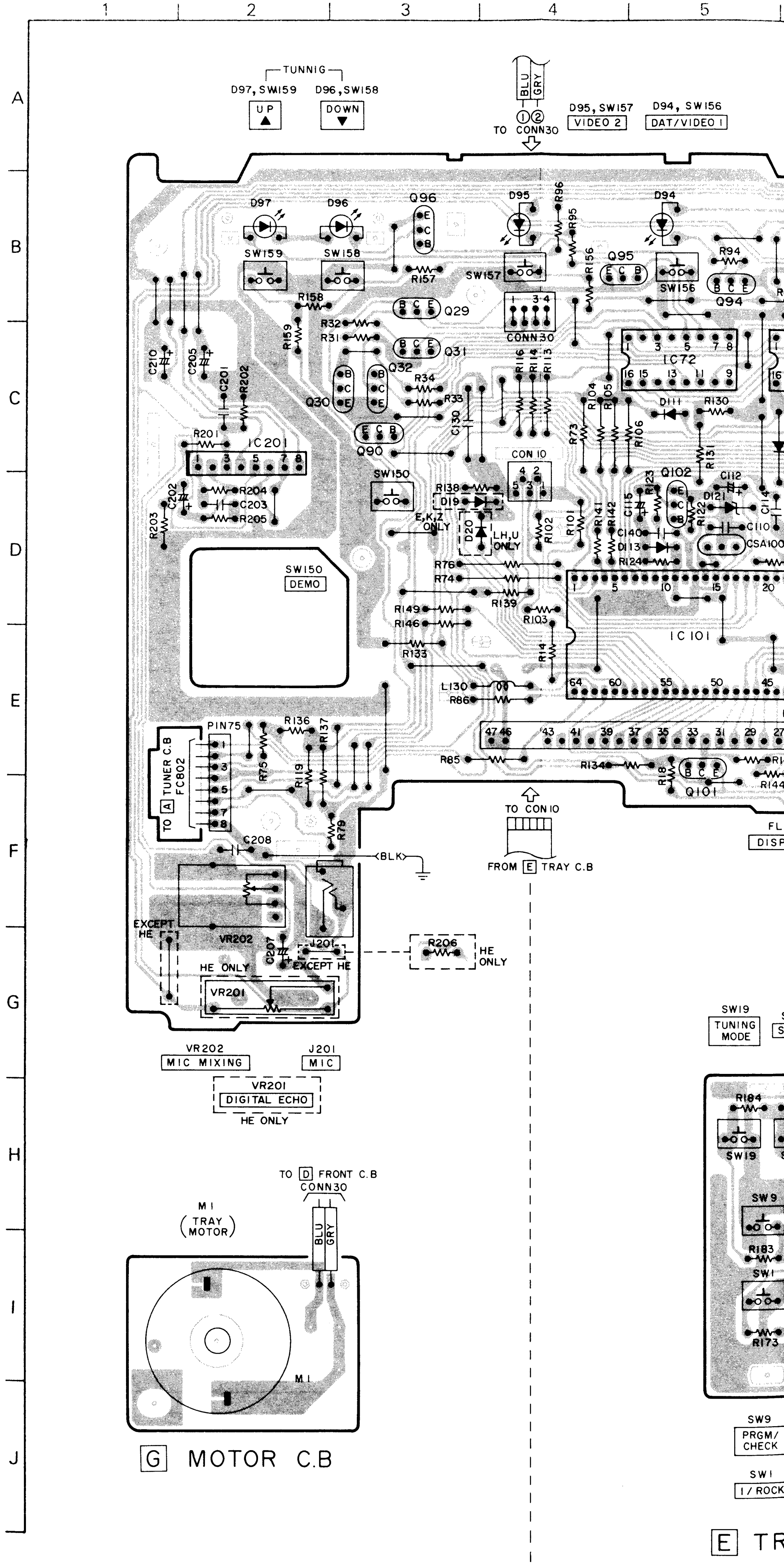


(5G) (4G) (3G)
1a 1h 1g 1k 1j col 1a 1h Dp col 2a 2h 1a 1h 2f 2g 2b 2e 2c 2d
(9G)
S9 S11 S9 S8 S7 S6 S5 S11 S5 S4 S3 S2
• T-BASS • BBE
9G 5G 4G 3G 1G
• T-BASS • BBE
STEREO EVERY
MAIN ONCE
SUB ON OFF
EDIT MONITOR 1 2
A B
BLANK
REC
PRGM RANDOM
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
SLEEP
WAKE UP
TUNE PRGM
AUTO
TV
FM MW
AM LW
MHZ
KHZ
60
150 S13 350
1K S12 25K
6K S10 15K
12G 11G 10G 8G 7G 6G S1 2G
B9 B8 B7 B6 B5 B4 B3 B2 B1
B18 B17 B16 B15 B14 B13 B12 B11 B10
(9G) (12G~10G)
1a 1h 1j 1h col 2a 2h 1a 1h col(上) col(下) 2a 1a 1f 1g 1b 1e 1h 1c 1d
(8G) (7G) (6G) (1G)

ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B9	B9	B9	B9	1a	1a	1a	1a	1a	1a	**1**	1a
P2	B18	B18	B18	🎤	1b	1b	1b	1b	1b	1b	**2**	1b
P3	B6	B6	B6	B6	1c	1c	1c	1c	1c	1c	**7**	1c
P4	B5	B5	B5	B5	1d	1d	1d	1d	1d	1d	**9**	1d
P5	B15	B15	B15	S4	1e	1e	1e	1e	1e	1e	**8**	1e
P6	B8	B8	B8	B8	1f	1f	1f	1f	1f	1f	**3**	1f
P7	B16	B16	B16	S3	1g	1g	1g	1g	1g	1g	**6**	1g
P8	B17	B17	B17	S2	1h	1h	1h	1h	1h	1h	**4**	1h
P9	B7	B7	B7	B7	1j	1j	col(上)	1j	Dp	**WAKE UP**	**5**	**MHZ**
P10	B14	B14	B14	S5	**MW**	col	col(下)	1k	col	**SLEEP**	**10**	**KHZ**
P11	B4	B4	B4	B4	**LW**	2a	2a	col	2a	2a	**11**	$\boxed{1}$
P12	B13	B13	B13	S6	**AUTO**	2b	2b	**STEREO**	2b	2b	**12**	$\boxed{2}$
P13	B11	B11	B11	S8	((◎))	2c	2c	**SUB**	2c	2c	**16**	⊃
P14	B10	B10	B10	S9	**TV**	2d	2d	**ON**	2d	2d	**PRGM**	$\boxed{A}$
P15	B1	B1	B1	B1	**TUNE**	2e	2e	**OFF**	2e	2e	**RANDOM**	$\boxed{B}$
P16	B3	B3	B3	B3	$\boxed{\text{PRGM}}$	2f	2f	**EVERY**	2f	2f	**13**	$\boxed{\text{REC}}$
P17	B2	B2	B2	B2	**AM**	2g	2g	**ONCE**	2g	2g	**15**	**BLANK**
P18	B12	B12	B12	S7	**FM**	21	–	**MAIN**	2h	🕒	**14**	**EDIT**
P19	–	–	–	–	○	–	–	–	–	–	–	–
P20	S13	S12	S10	S11	–	–	–	–	–	–	S1	**MONITOR**

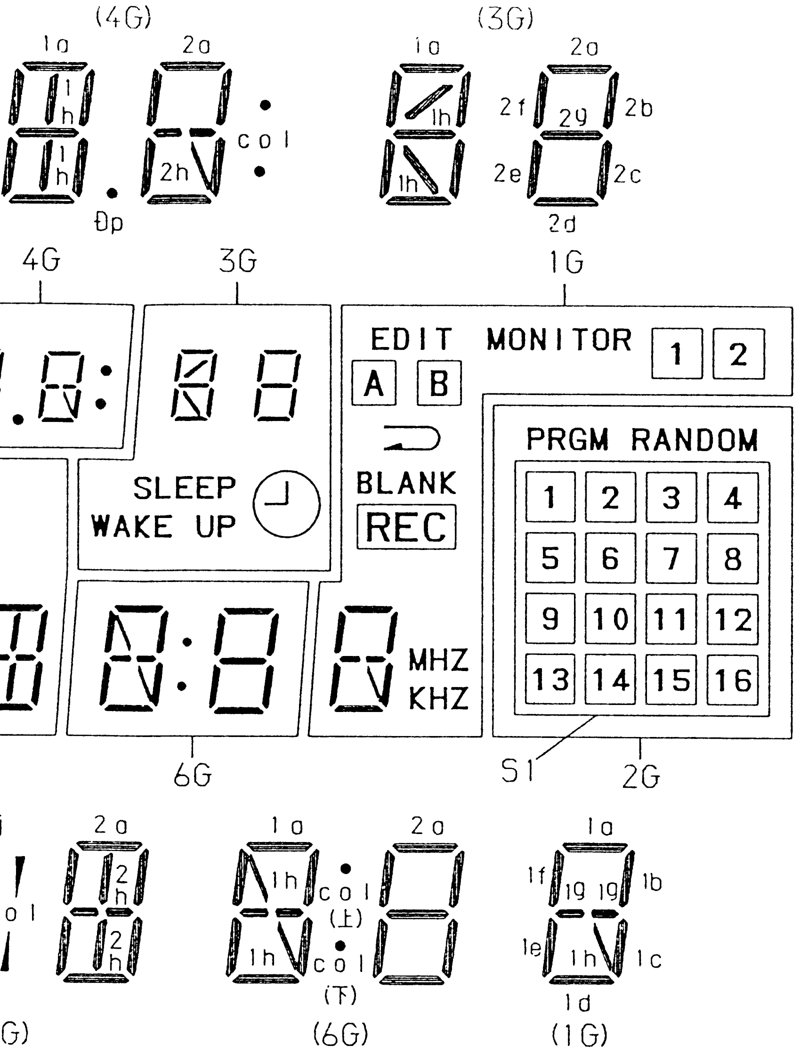
WIRING – 4 (RX – N55, FRONT)



1 2 3 4 5
A B C D E F G H I J
TUNNIG
D97, SW159
D96, SW158
UP
DOWN
BLU
GRY
TO CONN30
D95, SW157
VIDEO 2
D94, SW156
DAT/VIDEO 1
D97 D96 Q96 D95 R96 R95 D94
SW159 SW158 R157 SW157 R156 Q95 SW156 R94 Q94
R158 R159 R32 R31 Q29 Q31 Q30 Q32 R34 R33 CONN30
IC72
C210 C205 C201 R202
R201 IC201
Q90
C130
SW150
CON 10
R73 R104 R105 R106 D111 R130 R131
Q102 C112 D121 C110 CSA100
R138 D19 R139
E,K,Z ONLY
D20
LH,U ONLY
R102 R101 R141 R142 C115 R123 C140 D113 R124 R122
C202 R203 C203 R204 R205
SW150
DEMO
R76 R74 R149 R146 R103 R133
IC101
R14
L130 R86
PIN75 R136 R137
TO A TUNER C.B FC802
R75 R19 R79 R18 R85 R134 Q101
TO CON10
FROM E TRAY C.B
C208
BLK
EXCEPT HE
VR202 C207 J201 EXCEPT HE
HE ONLY
VR201
R206
HE ONLY
VR202
MIC MIXING
J201
MIC
VR201
DIGITAL ECHO
HE ONLY
TO D FRONT C.B CONN30
M1 (TRAY MOTOR)
BLU GRY
M1
G MOTOR C.B
SW19 TUNING MODE
R184 SW19 SW9 R183 SW1 R173
SW9 PRGM/ CHECK
SW1 I/ ROCK
E TR
FL DISP

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

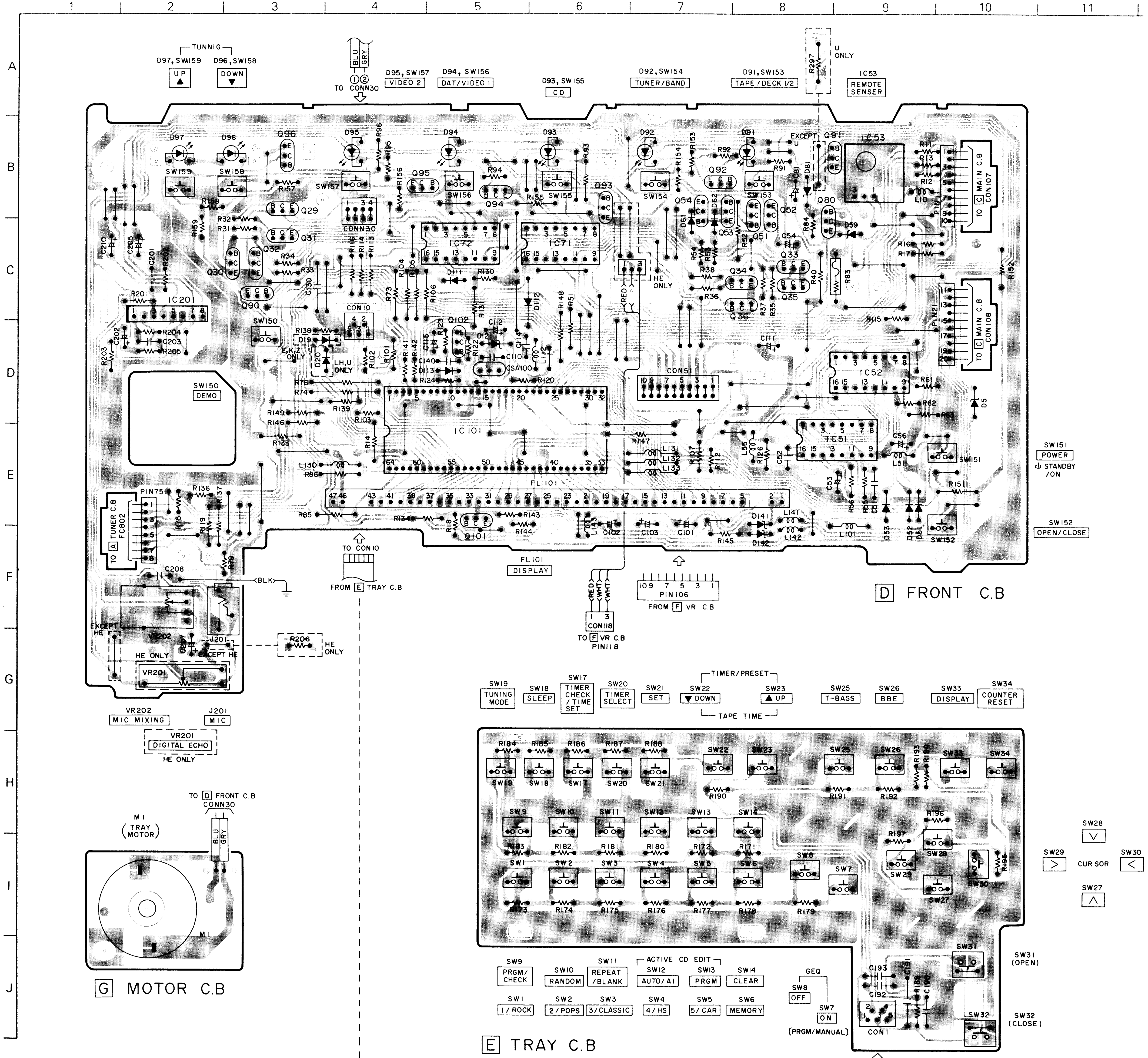
（プリント基板内のケミコンの極性表示はΘ表示です。）



(4G)
(3G)
1a
2a
1h
2h
col
Dp
2f
2g
2b
2e
2c
2d
4G
3G
1G
EDIT
MONITOR
1
2
A
B
BLANK
REC
SLEEP
WAKE UP
PRGM RANDOM
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
MHZ
KHZ
6G
S1
2G
col (上)
col (下)
1f
1g
1b
1e
1c
1d
(6G)
(1G)

1G
1a
1b
1c
1d
1e
1f
1g
1h
MHZ
KHZ
1
2
⊃
A
B
REC
BLANK
EDIT
—
MONITOR

WIRING – 4 (RX – N55, FRONT)

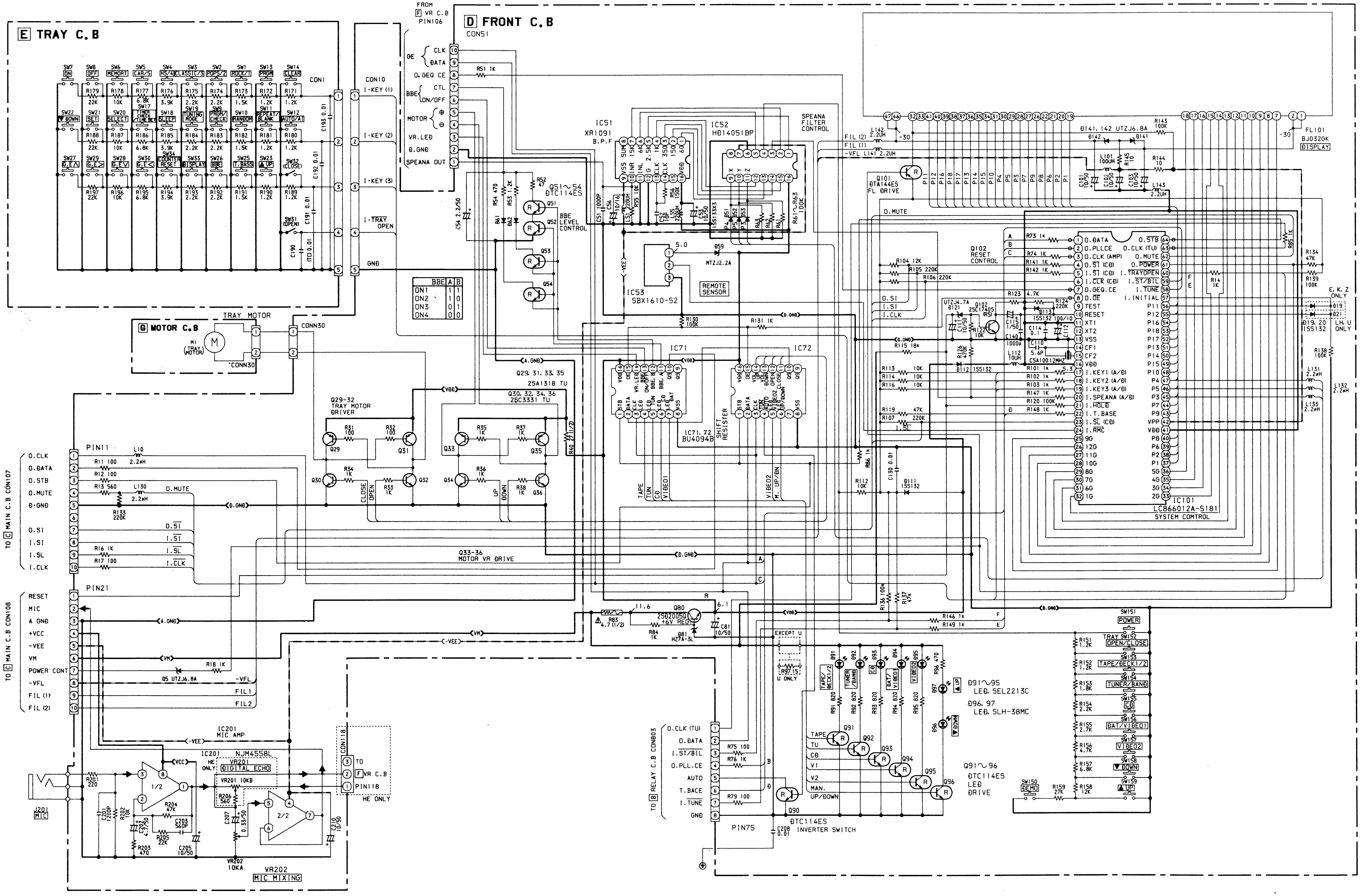


1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J
TUNNIG
D97, SW159 UP
D96, SW158 DOWN
BLU GRY
TO CONN30
D95, SW157 VIDEO 2
D94, SW156 DAT/VIDEO 1
D93, SW155 CD
D92, SW154 TUNER/BAND
D91, SW153 TAPE/DECK 1/2
R297 U ONLY
IC53 REMOTE SENSER
EXCEPT U
TO C MAIN C.B CON107
TO C MAIN C.B CON108
IC72
IC71
IC201
IC101
IC52
IC51
FL101
CON10
CON51
CONN30
HE ONLY
E,K,Z ONLY
LH,U ONLY
SW150 DEMO
TO A TUNER C.B FC802
PIN75
<BLK>
EXCEPT HE
HE ONLY
VR202
VR201
J201
R206 HE ONLY
VR202 MIC MIXING
J201 MIC
VR201 DIGITAL ECHO
HE ONLY
TO CON10
FROM E TRAY C.B
FL101 DISPLAY
RED WHT WHT
CON118
TO F VR C.B PIN118
PIN106
FROM F VR C.B
D FRONT C.B
SW151 POWER ⏻ STANDBY /ON
SW152 OPEN/CLOSE
SW19 TUNING MODE
SW18 SLEEP
SW17 TIMER CHECK / TIME SET
SW20 TIMER SELECT
SW21 SET
TIMER/PRESET
SW22 ▼ DOWN
SW23 ▲ UP
TAPE TIME
SW25 T-BASS
SW26 BBE
SW33 DISPLAY
SW34 COUNTER RESET
SW28 ∨
SW29 >
CUR SOR
SW30 <
SW27 ∧
SW31 (OPEN)
SW32 (CLOSE)
SW9 PRGM/ CHECK
SW10 RANDOM
SW11 REPEAT /BLANK
ACTIVE CD EDIT
SW12 AUTO/AI
SW13 PRGM
SW14 CLEAR
GEQ
SW8 OFF
SW7 ON
(PRGM/MANUAL)
SW1 1/ROCK
SW2 2/POPS
SW3 3/CLASSIC
SW4 4/HS
SW5 5/CAR
SW6 MEMORY
CON1
E TRAY C.B
TO D FRONT C.B CONN30
M1 (TRAY MOTOR)
BLU GRY
G MOTOR C.B
FROM D FRONT C.B

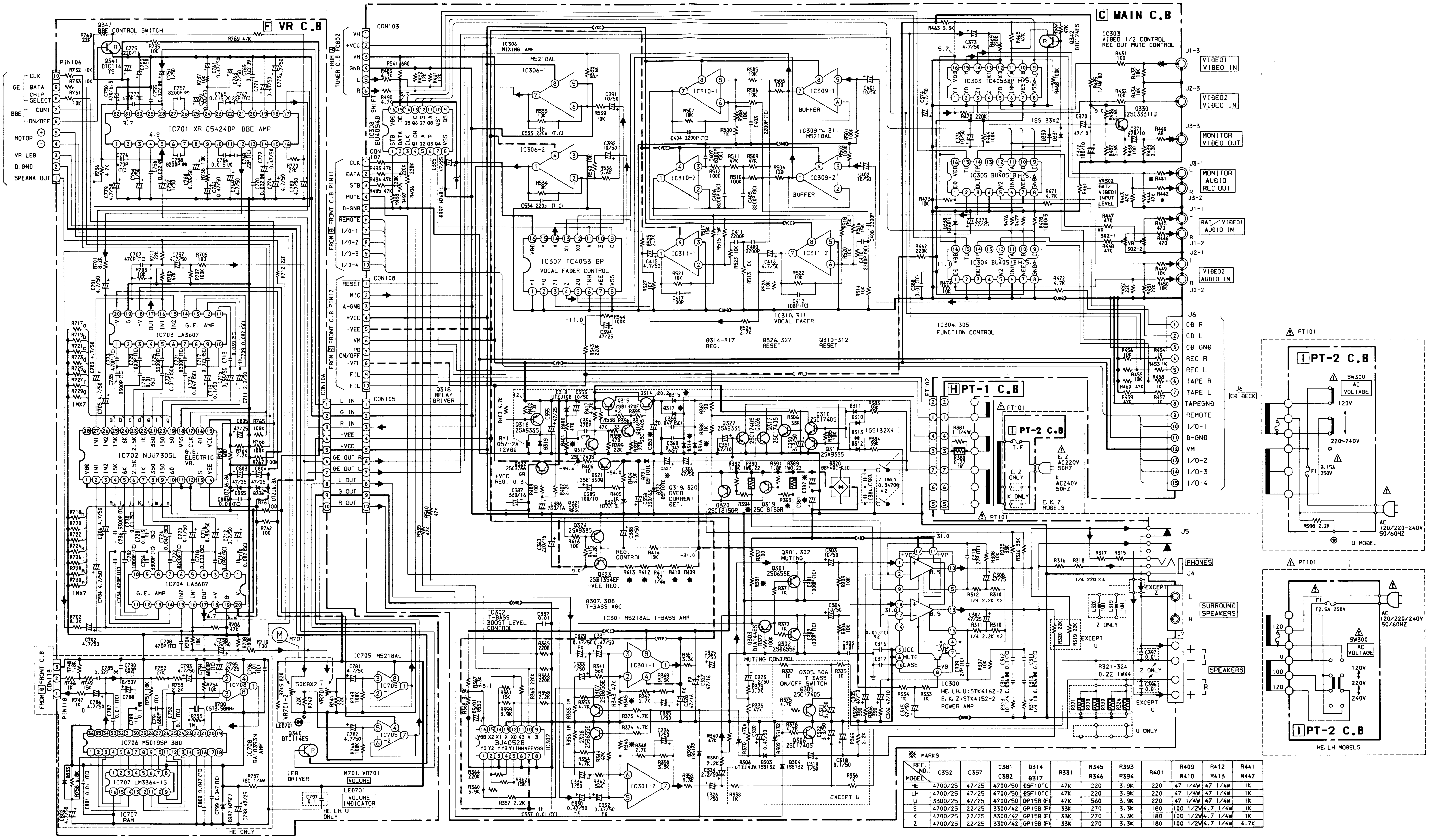
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はΘ表示です。)

SCHEMATIC DIAGRAM – 4 (RX – N55, FRONT)


E TRAY C.B
CON1
CON10
G MOTOR C.B
TRAY MOTOR
CONN30
FROM F VR C.B PIN106
D FRONT C.B
CON51
IC51 XR1091 B.P.F
IC52 HD14051BP
SPEANA FILTER CONTROL
Q51~54 DTC114ES
BBE LEVEL CONTROL
IC53 SBX1610-52
REMOTE SENSOR
IC71
IC72
IC71, 72 BU4094B
SHIFT RESISTER
Q29, 31, 33, 35 2SA1318 TU
Q30, 32, 34, 36 2SC3331 TU
Q29-32 TRAY MOTOR DRIVER
Q33-36 MOTOR VR DRIVE
BBE A B
ON1 1 1
ON2 1 0
ON3 0 1
ON4 0 0
PIN11
TO C MAIN C.B CON107
PIN21
TO C MAIN C.B CON108
Q80 2SD2005Q +6V REG
IC201 MIC AMP
IC201 NJM4558L
VR201 DIGITAL ECHO
VR202 MIC MIXING
J201 MIC
CON118
TO F VR C.B PIN118
HE ONLY
Q101 DTA144ES FL DRIVE
FL101 BJ032GK DISPLAY
D141, 142 UTZJ6.8A
Q102 RESET CONTROL
IC101 LC866012A-5181 SYSTEM CONTROL
TO B RELAY C.B CON803
PIN75
Q90 DTC114ES INVERTER SWITCH
D91~95 LED, SEL2213C
D96, 97 LED, SLH-38MC
Q91~96 DTC114ES LED DRIVE
E, K, Z ONLY
LH, U ONLY
EXCEPT U
U ONLY

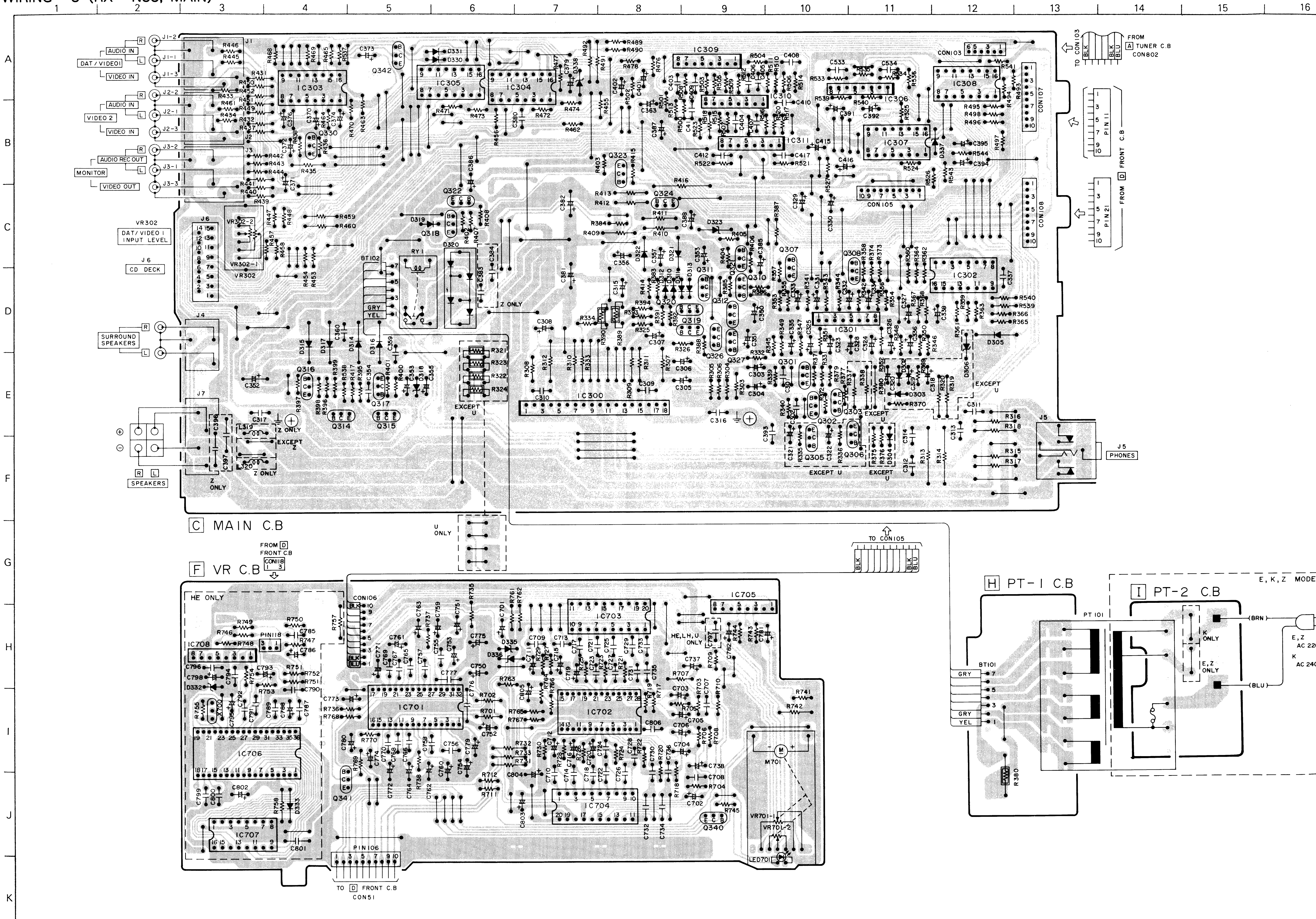
SCHEMATIC DIAGRAM – 5 (RX – N55, MAIN)


F VR C.B
C MAIN C.B
H PT-1 C.B
I PT-2 C.B
IC701 XR-C5424BP BBE AMP
Q347 BBE CONTROL SWITCH
IC702 NJU7305L G.E. ELECTRIC VR.
IC703 LA3607 G.E. AMP
IC704 LA3607 G.E. AMP
IC705 M5218AL
IC706 M5019SP BBO
IC707 LM3364-15
IC707 RAM
IC708 BA10393N AMP
Q340 DTC114ES LED DRIVER
M701, VR701 VOLUME
LED701 VOLUME INDICATOR
IC306 MIXING AMP M5218AL
IC307 TC4053 BP VOCAL FADER CONTROL
IC309~311 M5218AL BUFFER
IC310, 311 VOCAL FADER
IC308 BU4094B
IC303 TC4053BP VIDEO 1/2 CONTROL REC OUT MUTE CONTROL
IC304, 305 BU4051BH.S. FUNCTION CONTROL
Q314-317 REG.
Q326, 327 RESET
Q310-312 RESET
Q318 RELAY DRIVER
Q319, 320 OVER CURRENT DET.
Q323 2SB1354EF -VEE REG.
Q307, 308 T-BASS AGC
IC301 M5218AL T-BASS AMP
IC302 T-BASS BOOST LEVEL CONTROL BU4052B
Q301, 302 MUTING
Q305, 306 T-BASS ON/OFF SWITCH
IC300 HE, LH, U:STK4162-2 E, K, Z:STK4152-2 POWER AMP
VIDEO1 VIDEO IN
VIDEO2 VIDEO IN
MONITOR VIDEO OUT
MONITOR AUDIO REC OUT
DAT/VIDEO1 AUDIO IN
VIDEO2 AUDIO IN
PHONES
SURROUND SPEAKERS
SPEAKERS
J6 CD DECK
CON103
CON105
CON106
CON108
CON118
FROM A TUNER C.B FC802
FROM B FRONT C.B PIN11
FROM B FRONT C.B PIN12
FROM B FRONT C.B CON118
TO B FROM C.B CON51
PT101
SW300 AC VOLTAGE
120V
220~240V
AC 120/220-240V 50/60HZ
AC 120/220/240V 50/60HZ
U MODEL
HE, LH MODELS
E, K, Z MODELS
EXCEPT U
U ONLY
Z ONLY
HE ONLY
HE, LH, U ONLY

※ MARKS

REF. NO. / MODEL	C352	C357	C381 C382	D314 | D317	R331	R345 R346	R393 R394	R401	R409 R410	R412 R413	R441 R442
HE	4700/25	47/25	4700/50	DSF10TC	47K	220	3.9K	220	47 1/4W	47 1/4W	1K
LH	4700/25	47/25	4700/50	DSF10TC	47K	220	3.9K	220	47 1/4W	47 1/4W	1K
U	3300/25	47/25	4700/50	GP15B (F)	47K	560	3.9K	220	47 1/4W	47 1/4W	1K
E	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	1K
K	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	1K
Z	4700/25	22/25	3300/42	GP15B (F)	33K	270	3.3K	180	100 1/2W	4.7 1/4W	4.7K

WIRING – 5 (RX – N55, MAIN)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A
B
C
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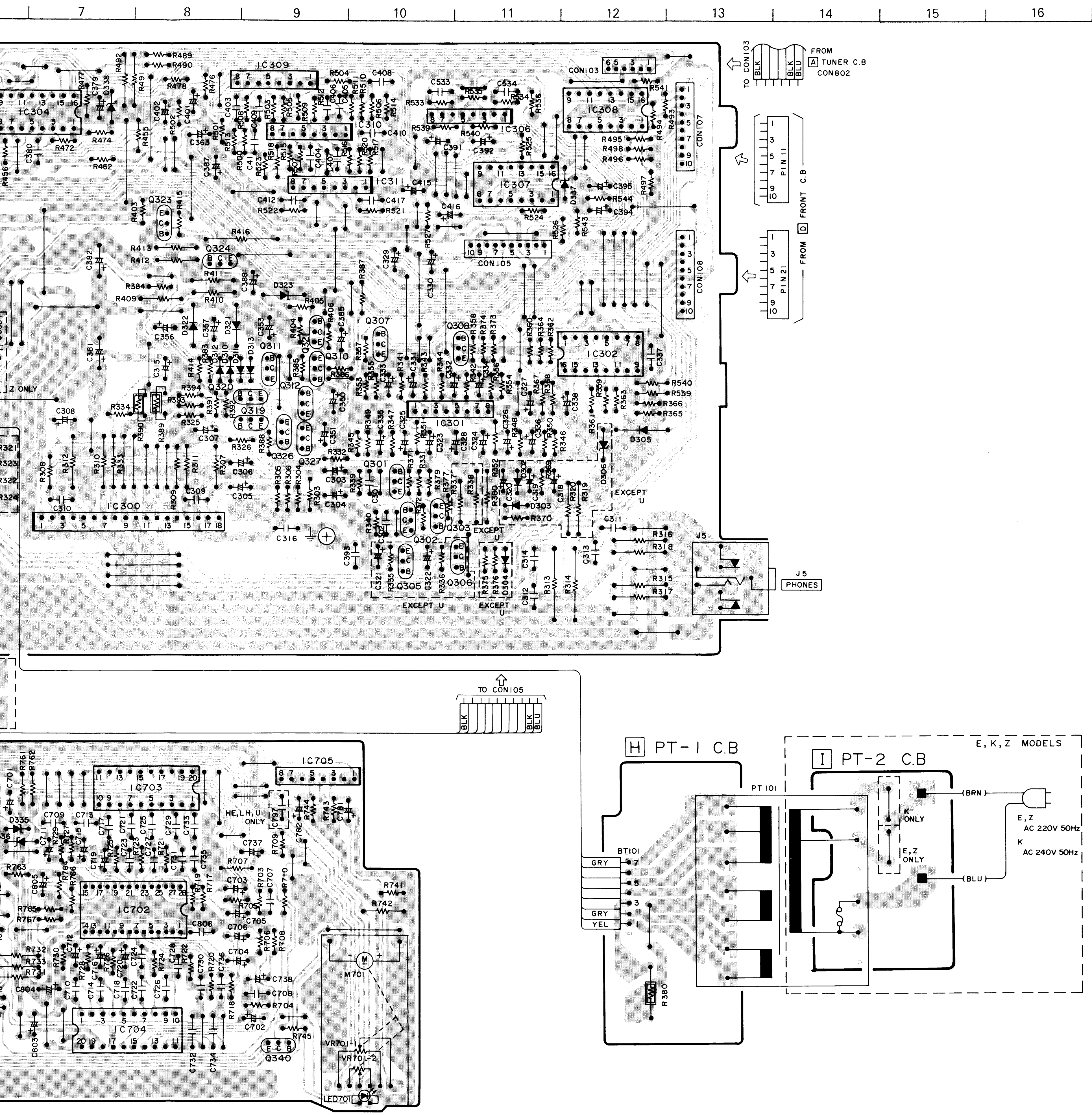
E
F
G
H
I
J
K
AUDIO IN
DAT / VIDEO1
VIDEO IN
AUDIO IN
VIDEO 2
VIDEO IN
AUDIO REC OUT
MONITOR
VIDEO OUT
VR302
DAT / VIDEO 1 INPUT LEVEL
J6
CD DECK
SURROUND SPEAKERS
SPEAKERS
Z ONLY
EXCEPT Z
EXCEPT U
U ONLY
C MAIN C.B
F VR C.B
FROM D FRONT C.B CON118
HE ONLY
HE,LH,U ONLY
TO D FRONT C.B CON51
PIN106
TO CON105
BLK
BLU
GRY
YEL
FROM A TUNER C.B CON802
TO CON103
FROM D FRONT C.B
PIN 11
PIN 21
CON103
CON105
CON107
CON108
CON106
J5
PHONES
IC300
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
IC309
IC310
IC311
IC701
IC702
IC703
IC704
IC705
IC706
IC707
IC708
RY1
BT102
M701
VR701-1
VR701-2
LED701
H PT-1 C.B
I PT-2 C.B
E, K, Z MODE
PT101
BT101
R380
K ONLY
E,Z ONLY
BRN
BLU
E,Z AC 220
K AC 240


7
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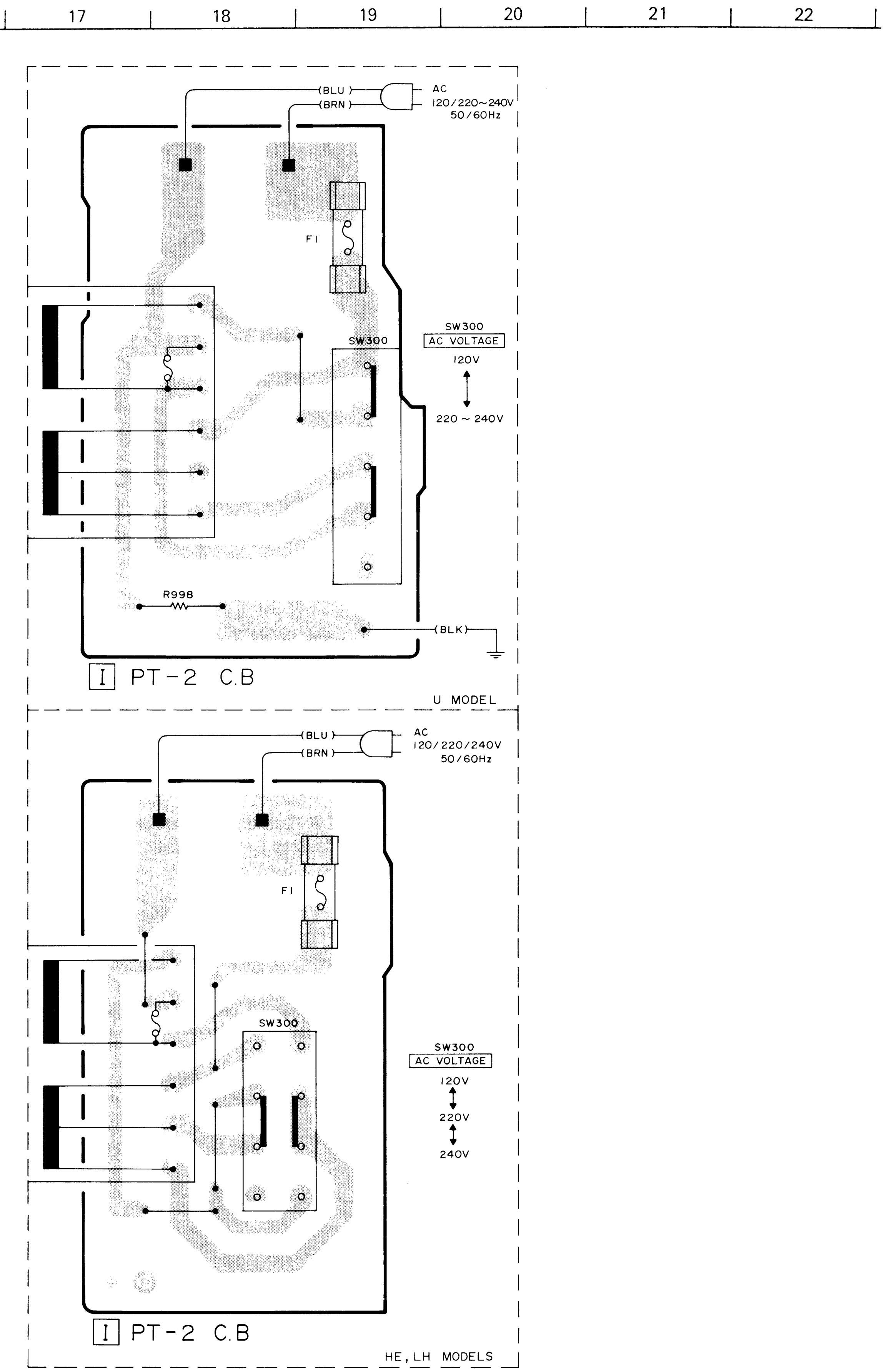
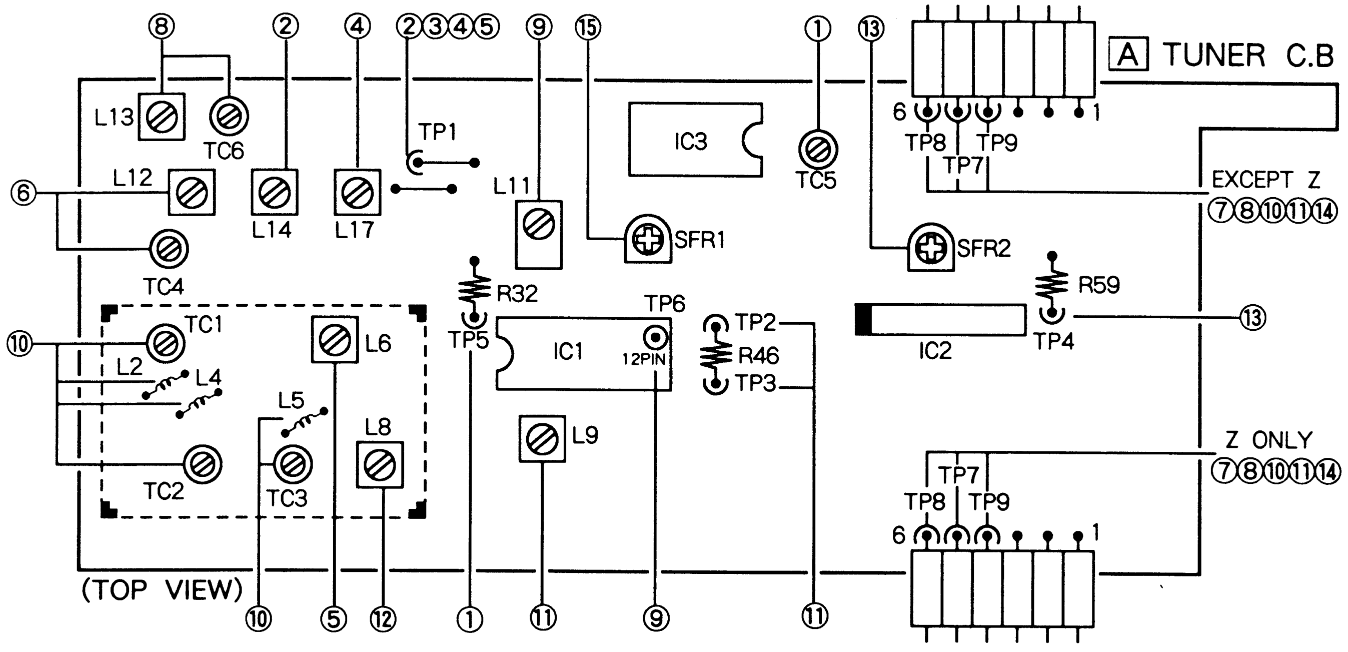
15
16
IC309
IC304
IC310
IC311
IC306
IC307
IC308
IC302
IC301
IC300
IC703
IC702
IC704
IC705
CON103
CON105
CON107
CON108
TO CON103
FROM
A TUNER C.B
CON802
BLK
BLU
PIN 11
PIN 21
FROM D FRONT C.B
Z ONLY
EXCEPT U
J5
J5
PHONES
TO CON105
HE,LH,U ONLY
M701
VR701-1
VR701-2
LED701
Q340
H PT-1 C.B
I PT-2 C.B
E,K,Z MODELS
PT101
BT101
GRY
YEL
R380
K ONLY
E,Z ONLY
(BRN)
(BLU)
E,Z
AC 220V 50Hz
K
AC 240V 50Hz


17
18
19
20
21
22
(BLU)
(BRN)
AC
120/220~240V
50/60Hz
F1
SW300
AC VOLTAGE
120V
220 ~ 240V
R998
(BLK)
I PT-2 C.B
U MODEL
AC
120/220/240V
50/60Hz
SW300
AC VOLTAGE
120V
220V
240V
I PT-2 C.B
HE, LH MODELS

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

ADJUSTMENT (RX – N55)



(TUNER SECTION)

1. Clock Adjustment
   Settings : • Test point : TP5
   • Adjustment location : TC5
   Method : Set to MW 1602kHz (HE, E, K, Z), 1710kHz (LH, U) and adjust so that the test point becomes 2052kHz ± 0.01kHz (HE, E, K, Z), 2160kHz ± 0.01kHz (LH, U)..

2. MW VT Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP1
   • Adjustment location : L14
   Method : Set to MW 531kHz and adjust so that the test point becomes 1.1 ± 0.05V.

3. AM VT Check (HE, LH, U ONLY)
   Settings : • Test point : TP1
   Method : Set to MW 531kHz (HE), 530kHz (LH, U) and check so that the test point becomes 1.1 ± 0.2V.

4. LW VT Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP1
   • Adjustment location : L17
   Method : Set to LW 144kHz and adjust so that the test point becomes 1.3V ± 0.05V.

5. FM VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : L6
   Method : Set to FM 108MHz and adjust L6 so that the test point becomes 9.0V ± 0.05V.

6. MW Tracking Adjustment (E, K, Z ONLY)
   L12 ··· 603kHz
   TC4 ··· 1404kHz

7. AM (MW) Tracking Check
   Settings : • Test point : TP7 (L ch)
   TP8 (R ch)
   TP9 (GND)
   Method : Set to MW 999kHz (HE, E, K, Z), 1000kHz (LH, U) and adjust to so that point become Less than 56dB (S/N 20dB).

8. LW Tracking Adjustment (E, K, Z ONLY)
   Settings : • Test point : TP7 (L ch)
   TP8 (R ch)
   TP9 (GND)
   L13 ··· 144kHz
   TC6 ··· 290kHz

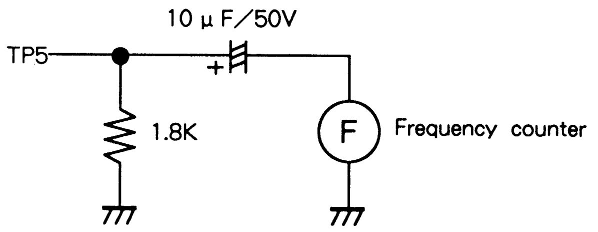
9. AM (MW) IF Adjustment
   Settings : • Test point : TP6
   L11 ··· 450kHz

10. FM Tracking Adjustment
    Settings : • Test point : TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    TC1, TC2 ························ 108MHz (Except Z)
    TC1, TC2, TC3 ························ 108MHz (Z)
    L2, L4 ························ 87.5MHz (Except Z)
    L2, L4, L5 ························ 87.5MHz (Z)

11. DC Balance/MONO Distortion Adjustment
    Settings : • Test point : TP2, TP3 (DC Balance)
    TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    (Distortion)
    • Adjustment location : L9
    • Input level : 60dB
    Method : Set to FM 98.0MHz and adjust L9 so that TP2 and TP3 output becomes 0V ± 0.02V. Next, adjust L9 so that the distortion becomes minimum (Less than 0.6%).

12. FM IF Adjustment
    L8 ··· 10.7MHz

13. FM VCO Adjustment
    Settings : • Test point : TP4
    • MODE SW : STEREO
    • Adjustment location : SFR2
    • Input level : 60dB
    Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



14. FM Separation Adjustment
    Settings : • Test point : TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    Method : Set to FM 98.0MHz and check that the separation at test point becomes more than 27dB.

15. Light on tuning LED Adjustment
    Settings : • Adjustment location : SFR1
    • Input level : 18dB
    Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 18 ± 2dB down.

PRACTICAL SERVICE FIGURE (RX – N55)

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity: (THD 3%)	4 ± 4dB (Except Z) 8 ± 4dB (Z) (at 87.5MHz) 2 ± 4dB (Except Z) 6 ± 4dB (Z) (at 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity: (Except Z)	Less than 34dB (at 87.5, 98.0, 108.0MHz)
S/N 46dB Quieting Sensitivity: (Z)	Less than 38dB (at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio:	More than 65dB (Except Z) (at 98.0MHz) More than 60dB (Z) (at 98.0MHz)
Distortion:	Less than 0.8% (at 98.0MHz)
Stereo Separation:	More than 27dB (at 98.0MHz)
Intermediate Frequency:	10.7MHz

<AM (MW) SECTION>

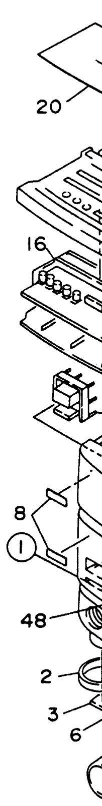
Sensitivity:	56 ± 4dB 〔at 603kHz (HE, E, K, Z)〕 〔at 600kHz (LH, U)〕 52 ± 4dB 〔at 999/1404kHz (HE, E, K, Z)〕 〔at 1000/1400kHz (LH, U)〕
Distortion:	Less than 1.6% 〔at 999kHz (HE, E, K, Z)〕 〔at 1000kHz (LH, U)〕
Intermediate Frequency:	450kHz

<LW SECTION> (E, K, Z ONLY)

Sensitivity: (S/N 20dB)	63 ± 5dB (at 153kHz) 60 ± 5dB (at 198kHz) 60 ± 5dB (at 290kHz)
Signal to Noise Ratio:	More than 45dB (at 198kHz)
Distortion:	Less than 1.2% (at 198kHz)
Intermediate Frequency:	450kHz

EXPLODED VIE

REF. NO.	PART NO.
A	87-067-579-019
B	87-067-581-019
C	87-067-761-019
D	87-067-688-019
E	87-067-585-019
F	87-067-912-019
G	87-261-071-419
H	87-067-584-019
I	87-591-095-419
J	87-067-673-019
K	87-067-641-019
L	87-067-058-019
M	87-067-703-019
N	87-067-689-019
O	87-743-095-410



ER C.B

CEPT Z
⑧⑩⑪⑭

-⑬

Z ONLY
⑧⑩⑪⑭

, 1000kHz
nt become

···144kHz
···290kHz

···450kHz

Except Z)
8MHz (Z)
Except Z)
5MHz (Z)

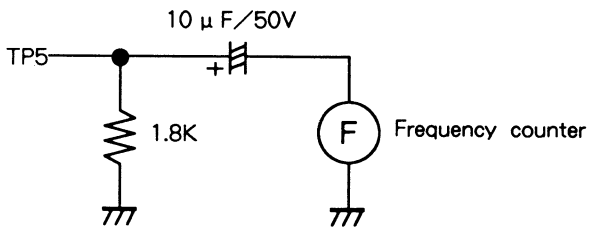
ce)

9 so that
± 0.02V.
ion
).

---

12. FM IF Adjustment
    L8 ··· 10.7MHz

13. FM VCO Adjustment
    Settings : • Test point : TP4
    • MODE SW : STEREO
    • Adjustment location : SFR2
    • Input level : 60dB
    Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.


10 μ F/50V
TP5
+
1.8K
F
Frequency counter

14. FM Separation Adjustment
    Settings : • Test point : TP7 (L ch)
    TP8 (R ch)
    TP9 (GND)
    Method : Set to FM 98.0MHz and check that the separation at test point becomes more than 27dB.

15. Light on tuning LED Adjustment
    Settings : • Adjustment location : SFR1
    • Input level : 18dB
    Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 18 ± 2dB down.

PRACTICAL SERVICE FIGURE (RX – N55)

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity: (THD 3%)	4 ± 4dB (Except Z) 8 ± 4dB (Z) (at 87.5MHz) 2 ± 4dB (Except Z) 6 ± 4dB (Z) (at 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity: (Except Z)	Less than 34dB (at 87.5, 98.0, 108.0MHz)
S/N 46dB Quieting Sensitivity: (Z)	Less than 38dB (at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio:	More than 65dB (Except Z) (at 98.0MHz) More than 60dB (Z) (at 98.0MHz)
Distortion:	Less than 0.8% (at 98.0MHz)
Stereo Separation:	More than 27dB (at 98.0MHz)
Intermediate Frequency:	10.7MHz

<AM (MW) SECTION>

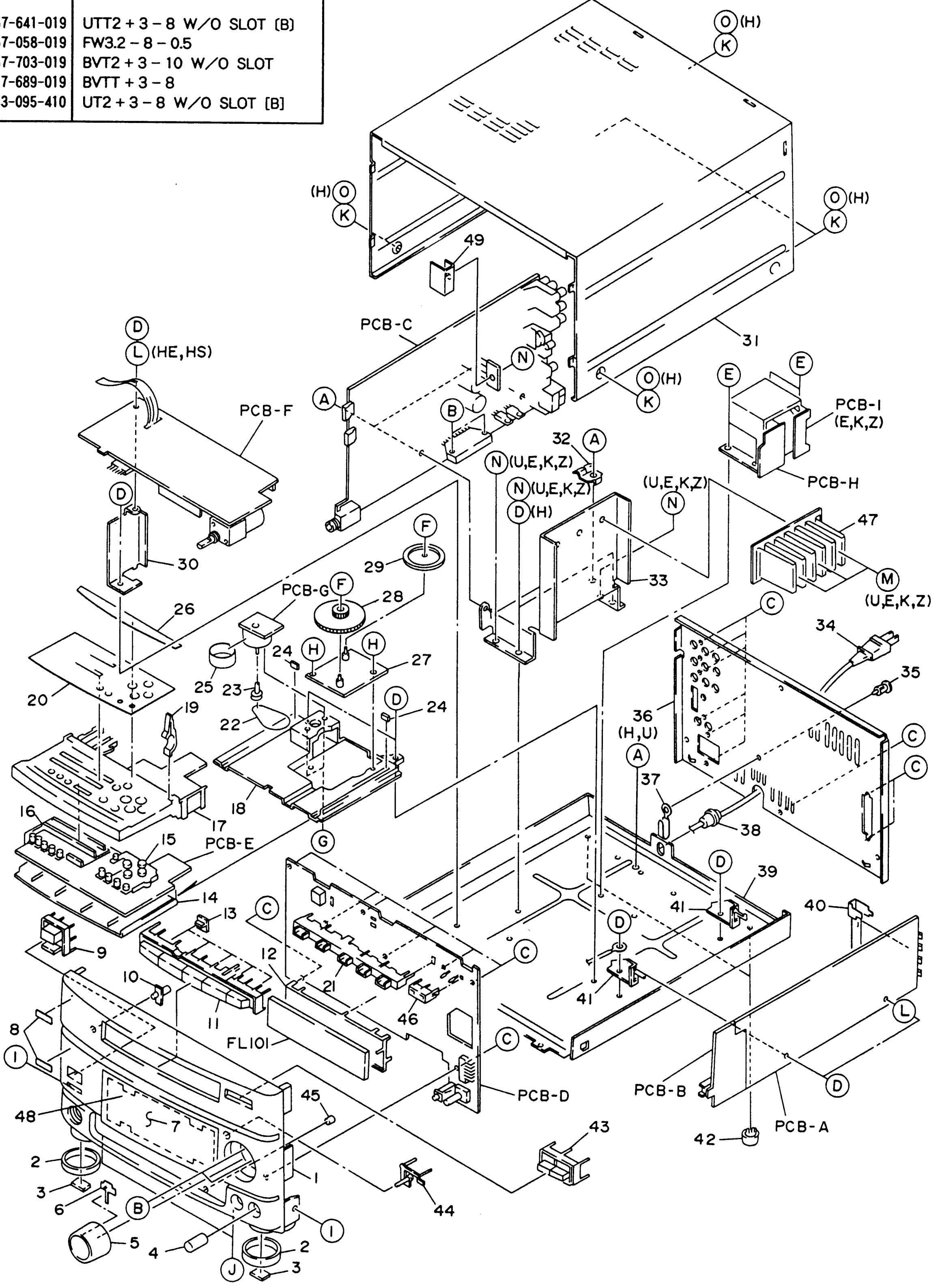
Sensitivity:	56 ±4dB (at 603kHz (HE, E, K, Z)) (at 600kHz (LH, U)) 52 ± 4dB (at 999/1404kHz (HE, E, K, Z)) (at 1000/1400kHz (LH, U))
Distortion:	Less than 1.6% (at 999kHz (HE, E, K, Z)) (at 1000kHz (LH, U))
Intermediate Frequency:	450kHz

<LW SECTION> (E, K, Z ONLY)

Sensitivity: (S/N 20dB)	63 ± 5dB (at 153kHz) 60 ± 5dB (at 198kHz) 60 ± 5dB (at 290kHz)
Signal to Noise Ratio:	More than 45dB (at 198kHz)
Distortion:	Less than 1.2% (at 198kHz)
Intermediate Frequency:	450kHz

EXPLODED VIEW (RX – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-579-019	BVT2 + 3 – 8 W/O SLOT
B	87-067-581-019	BVT2 + 3 – 15 W/O SLOT
C	87-067-761-019	BVT2 + 3 – 10 (B)
D	87-067-688-019	BVTT + 3 – 6
E	87-067-585-019	BVTT + 4 – 6
F	87-067-912-019	PW, 2.68 – 4.15 – 0.4 CUT
G	87-261-071-419	V + 2.6 – 4
H	87-067-584-019	BVT2 + 3 – 6 W/O SLOT
I	87-591-095-419	QIT + 3 – 8
J	87-067-673-019	BVTT + 3 – 8 (B)
K	87-067-641-019	UTT2 + 3 – 8 W/O SLOT (B)
L	87-067-058-019	FW3.2 – 8 – 0.5
M	87-067-703-019	BVT2 + 3 – 10 W/O SLOT
N	87-067-689-019	BVTT + 3 – 8
O	87-743-095-410	UT2 + 3 – 8 W/O SLOT [B]


Ⓞ(H)
Ⓚ
(H)Ⓞ
Ⓚ
Ⓞ(H)
Ⓚ
49
31
PCB-C
Ⓓ
Ⓛ(HE,HS)
PCB-F
Ⓐ
Ⓝ
Ⓑ
Ⓞ(H)
Ⓚ
Ⓔ
Ⓔ
PCB-I
(E,K,Z)
PCB-H
32
Ⓐ
Ⓝ(U,E,K,Z)
Ⓝ(U,E,K,Z)
Ⓓ(H)
(U,E,K,Z)
Ⓝ
47
Ⓜ
(U,E,K,Z)
Ⓓ
30
Ⓕ
29
PCB-G
Ⓕ
28
26
24
Ⓗ
Ⓗ
27
25
23
20
19
22
Ⓓ
24
33
Ⓒ
34
35
36
(H,U)
Ⓐ
37
38
Ⓒ
Ⓒ
18
17
16
15
PCB-E
Ⓖ
14
13
Ⓒ
Ⓓ
39
41
40
9
12
21
Ⓒ
Ⓓ
41
10
11
46
FL101
Ⓒ
Ⓛ
8
Ⓘ
PCB-D
PCB-B
Ⓓ
48
45
43
42
PCB-A
7
2
1
3
6
Ⓑ
44
5
4
Ⓙ
2
3
Ⓘ

MECHANICAL PARTS LIST (RX – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-MT3-004-019	CABINET, FRONT 〔B〕 (H, HE)	※	1
	1	★81-MT3-099-019	CABINET, FRONT 〔B〕 (HS)	※	1
	1	★81-MT3-022-019	CABINET, FRONT 〔B〕 (LH, E, K, Z)	※	1
	1	★81-MT3-049-019	CABINET, FRONT 〔N〕 (HE)	※	1
	1	★81-MT3-107-019	CABINET, FRONT 〔N〕 (LH)	※	1
	1	★81-MT3-087-019	CABINET, FRONT 〔N〕 (U)	※	1
	1	★81-MT3-066-119	CABINET, FRONT 〔N〕 (E, K, Z)	※	1
	2	★81-MT3-017-019	FOOT, RING 〔B〕	※	2
	2	★81-MT3-052-019	FOOT, RING 〔N〕	※	2
	3	★80-VT1-202-019	FELT, 12.5 – 15.5 – 2		2
	4	★80-MT3-014-019	KNOB, MIC 〔B〕		1
	4	★81-MT3-057-019	KNOB, MIC 〔N〕	※	1
	5	★81-MT3-068-119	VOLUME KNOB ASSY 〔B〕	※	1
	5	★81-MT3-065-119	VOLUME KNOB ASSY 〔N〕 (HE, LH)	※	1
	5	★81-MT3-091-019	VOLUME KNOB ASSY 〔N〕 (U)	※	1
	5	★81-MT3-095-019	VOLUME KNOB ASSY 〔N〕 (E, K, Z)	※	1
	6	★81-MT3-010-019	INDICATION, VOLUME	※	1
	7	★81-MT3-013-019	WINDOW, DISPLAY	※	1
	8	★81-MX4-032-019	BADGE, AIWA		2
	9	★81-MT3-008-019	KEY, POWER 〔B〕 (EXCEPT FOR HS)	※	1
	9	★81-MT3-102-019	KEY, POWER 〔B〕 (HS)	※	1
	9	★81-MT3-054-019	KEY, POWER 〔N〕 (HE, LH)	※	1
	9	★81-MT3-090-019	KEY, POWER 〔N〕 (U, E, K, Z)	※	1
	10	★81-MT3-015-019	LENS, SENSOR	※	1
	11	★81-MT3-070-019	KEY, FUNCTION (EXCEPT FOR HS, U)	※	1
	11	★81-MT3-101-019	KEY, FUNCTION (HS)	※	1
	11	★81-MT3-089-019	KEY, FUNCTION (U)	※	1
	12	★80-VP1-208-110	GUIDE, FL		1
	13	★81-MT3-014-019	INDICATION, FUNCTION	※	5
	14	★81-MT3-204-019	PLATE, BOTTOM 〔B〕	※	1
	14	★81-MT3-059-019	PLATE, BOTTOM 〔N〕	※	1
	15	★81-MT3-012-019	KEY, GE 〔B〕	※	1
	15	★81-MT3-063-019	KEY, GE 〔N〕	※	1
	16	★81-MT3-011-019	KEY, TIMER 〔B〕	※	1
	16	★81-MT3-062-019	KEY, TIMER 〔N〕	※	1
	17	★81-MT3-036-019	CABINET, TRAY 〔B〕 (H, HE, LH)	※	1
	17	★81-MT3-100-019	CABINET, TRAY 〔B〕 (HS)	※	1
	17	★81-MT3-073-019	CABINET, TRAY 〔B〕 (E, K, Z)	※	1
	17	★81-MT3-051-019	CABINET, TRAY 〔N〕 (HE, LH)	※	1
	17	★81-MT3-088-019	CABINET, TRAY 〔N〕 (U, E, K, Z)	※	1
	18	★81-MT3-205-019	HOLDER, TRAY	※	1
	19	★81-MT3-211-019	LEVER, OPEN	※	1
	20	★81-MT3-037-019	PLATE, TRAY 〔B〕 (EXCEPT FOR HS)	※	1
	20	★81-MT3-103-019	PLATE, TRAY 〔B〕 (HS)	※	1
	20	★81-MT3-064-019	PLATE, TRAY 〔N〕	※	1
	21	★81-MT3-212-019	GUIDE, LED 1	※	1
	22	★81-MT3-219-010	BELT, SQ1.2	※	1
	23	★89-VW5-206-019	PULLEY, MOTOR		1
	24	★81-MT3-220-019	CUSHION, G 2 – 5 – 3.5	※	2
	25	★82-110-647-010	PLATE, SHIELD		1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	26	★81-MT3-034-019	PLATE, TRAY SUB (H)	※	1
	26	★81-MT3-048-019	PLATE, TRAY SUB (EXCEPT FOR H)	※	1
	27	★81-MT3-206-019	LOADING HOLDER ASSY	※	1
	28	★81-MT3-210-010	GEAR	※	1
	29	★89-VW5-204-119	PULLEY, ROADING		1
	30	---	HOLDER, PWB		1
	31	★81-MT3-019-119	CABINET, STEEL 〔B〕 (H, HE, LH, HS)	※	1
	31	★81-MT3-069-018	CABINET, STEEL 〔B〕 (E, K, Z)	※	1
	31	★81-MT3-050-119	CABINET, STEEL 〔N〕 (HE, LH, U)	※	1
	31	★81-MT3-082-018	CABINET, STEEL 〔N〕 (E, K, Z)	※	1
	32	---	HOLDER, IC 2		1
	33	---	HEAT SINK		1
	34	★82-187-797-019	CORD, AC (H, HE, E, Z)		1
	34	★87-034-749-019	CORD, AC (LH)		1
	34	★87-034-584-019	CORD, AC (U)		1
	34	★87-034-592-018	CORD, AC (K)		1
	34	★81-MX4-736-019	CORD, AC (HS)		1
	35	★87-084-077-019	RIVET, NYLON DIA 3.5 – 4.5		1
	36	★81-MT3-098-019	PANEL, REAR 〔B〕 (H)	※	1
	36	★81-MT3-038-119	PANEL, REAR 〔B〕 (HE)	※	1
	36	★81-MT3-097-019	PANEL, REAR 〔B〕 (HS)	※	1
	36	★81-MT3-039-119	PANEL, REAR 〔B〕 (LH)	※	1
	36	★81-MT3-083-019	PANEL, REAR 〔B〕 (E)	※	1
	36	★81-MT3-024-019	PANEL, REAR 〔B〕 (EE)	※	1
	36	★81-MT3-025-019	PANEL, REAR 〔B〕 (K)	※	1
	36	★81-MT3-026-019	PANEL, REAR 〔B〕 (Z)	※	1
	36	★81-MT3-040-019	PANEL, REAR 〔N〕 (HE)	※	1
	36	★81-MT3-108-019	PANEL, REAR 〔N〕 (LH)	※	1
	36	★81-MT3-086-019	PANEL, REAR 〔N〕 (U)	※	1
	36	★81-MT3-078-019	PANEL, REAR 〔N〕 (E)	※	1
	36	★81-MT3-079-019	PANEL, REAR 〔N〕 (K)	※	1
	36	★81-MT3-077-019	PANEL, REAR 〔N〕 (Z)	※	1
	37	---	BINDER, WIRE		1
	38	★87-085-185-010	BUSHING, AC CORD (H, HE, E, K, Z)		1
	38	★87-085-189-010	BUSHING, AC CORD (HS, U)		1
	38	★87-085-184-010	BUSHING, AC CORD (LH)		1
	39	---	CHASSIS, MAIN		1
	40	★81-653-638-110	EARTH, ANTENNA TERMINAL (H, HE, HS, LH, U)		1
	40	★81-653-648-010	EARTH, ANTENNA TERMINAL PAL (E, K, Z)		1
	41	---	HOLDER, TU		2
	42	★87-085-213-019	FOOT, H12.5		2
	43	★81-MT3-016-010	KEY, PRESET	※	1
	44	★81-MT3-032-019	KEY, DEMO 〔B〕	※	1
	44	★81-MT3-061-019	KEY, DEMO 〔N〕	※	1
	45	★81-MT3-223-010	CUSHION, G STOPPER	※	1
	46	★81-MT3-213-019	GUIDE, LED 2	※	1
	47	---	HEAT SINK SUB (U, E, K, Z)	※	1
	48	★81-MT3-058-019	SHEET, WINDOW 〔N〕	※	1
	49	---	HEAT SINK		1

MODEL NO.

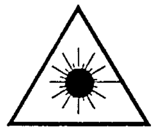
FD – N55

PROTECTION OF EYES FROM LASER BEAM SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- ■ Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- ■ Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion.
  Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1
LASER PRODUCT

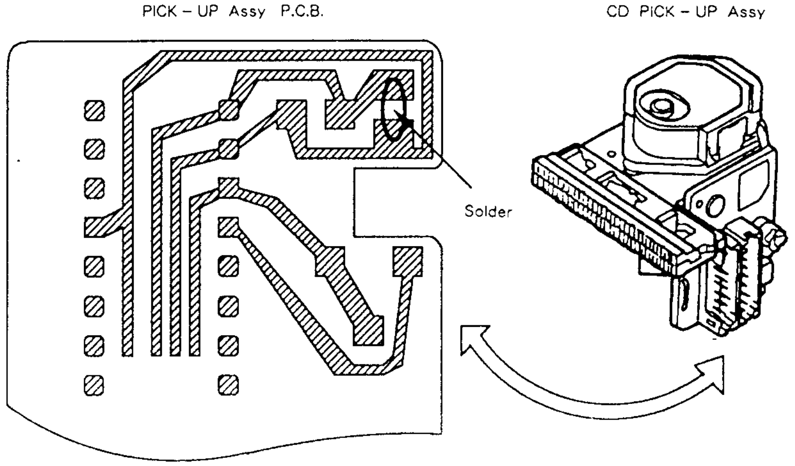
LUOKAN 1
LASERLAITE

KLASS 1
LASER APPARAT

Precaution to replace Optical block (KSS – 210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST (FD – N55)

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-002-247-019	IC, BU4052B
	87-002-282-019	IC, BU4066B
	87-002-444-019	IC, BU4094B
	87-020-793-010	IC, CXA1081M
	87-020-794-010	IC, CXA1082BQ
	87-001-908-010	IC, CXA1332S(U, E, K, Z)
	87-001-944-010	IC, CXD1167Q
	87-002-211-019	IC, GP1F32T(DIGITAL OUT)
	87-001-874-019	IC, HA12134A(HE, LH)
	87-002-394-019	IC, LB1641
	87-001-334-019	IC, LB9051A
	81-MV3-612-010	IC, LC67216A-4911
	87-027-895-010	IC, M5218AL
	87-020-758-019	IC, NJM2068SD
	87-001-607-019	IC, NJM4558M
	87-002-756-010	IC, SM5870BS
	87-027-827-019	IC, TC4069UBP
	87-001-583-019	IC, TC7S00F
===TRANSISTOR===		
	89-503-735-019	FET, 2SK373GR
	89-111-624-019	TRANSISTOR, 2SA1162Y(HE, LH, E, Z)
	89-112-965-019	TRANSISTOR, 2SA1296GR
	89-113-187-019	TRANSISTOR, 2SA1318TU
	87-026-463-019	TRANSISTOR, 2SA933S(RS)
	89-109-521-019	TRANSISTOR, 2SA952K
	89-213-542-019	TRANSISTOR, 2SB1354E, F
	87-026-462-019	TRANSISTOR, 2SC1740S(RS)
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-320-011-019	TRANSISTOR, 2SC2001K
	89-327-124-019	TRANSISTOR, 2SC2712Y
	89-332-665-019	TRANSISTOR, 2SC3266GR
	89-406-555-019	TRANSISTOR, 2SD655E
	87-026-269-019	TRANSISTOR, DTA114ES
	87-026-233-019	TRANSISTOR, DTA114TK
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-483-019	TRANSISTOR, DTA123JS
	87-026-235-019	TRANSISTOR, DTC114EK(HE, LH, E, Z)
	87-026-237-019	TRANSISTOR, DTC124XK
	87-026-224-019	TRANSISTOR, DTC143XK
	87-026-210-019	TRANSISTOR, DTC144EK
	87-026-218-019	TRANSISTOR, DTC144ES
===DIODE===		
	87-020-027-019	DIODE, CHIP 1SS184(HE, LH, E, Z)
	87-020-339-019	DIODE, CHIP 1SS226
	87-001-559-019	DIODE, 1SS131
	87-020-691-019	DIODE, 1SS132(K)
	87-020-123-019	DIODE, DS446
	87-002-654-019	DIODE, S5566B
	87-002-646-019	DIODE, ZENER HZ5C1
	87-027-475-019	DIODE, ZENER HZ6B1
	87-027-332-019	DIODE, ZENER HZ6B1L
	87-027-703-019	DIODE, ZENER HZ7A1L
	87-002-645-019	DIODE, ZENER HZ9A1L
	87-001-914-019	DIODE, ZENER UTZJ6. 2B
===MAIN CIRCUIT BOARD SECTION===		
C1	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y(E, Z)
C2	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y(E, Z)
C101	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C102	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C103	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C104	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C109	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C110	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C111	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C112	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C113	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C114	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C115	★87-010-101-019	CAP, ELECT 220-16 SME
C116	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C117	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C201	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C202	★87-018-126-019	CAP, CERA-SOL U 390P-50 B
C203	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C204	★87-018-115-019	CAP, CERA-SOL U 47P-50 SL
C207	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C208	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C211	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C212	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C213	★87-010-101-019	CAP, ELECT 220-16 SME
C214	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C215	★87-018-134-019	CAP, CERA-SOL U 0. 01-16 Y
C251	★87-018-133-019	CAP, CERA-SOL U 4700P-16 X
C252	★87-018-100-019	CAP, CERA-SOL U 4. 7P-50 SL
C253	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C255	★87-018-121-019	CAP, CERA-SOL U 150P-50 B
C256	★87-010-374-019	CAP, ELECT 47-10
C257	★87-010-401-019	CAP, ELECT 1-50 SME
C258	★87-018-100-019	CAP, CERA-SOL U 4. 7P-50 SL
C259	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C301	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C302	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C303	★87-018-198-019	CAP, CERA-SOL U 2700P-16 X
C304	★87-018-198-019	CAP, CERA-SOL U 2700P-16 X
C305	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C306	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C323	★87-018-125-019	CAP, CERA-SOL U 330P-50B
C324	★87-018-125-019	CAP, CERA-SOL U 330P-50B
C401	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C402	★87-018-123-019	CAP, CERA-SOL U 220P-50 B
C409	★87-010-402-019	CAP, ELECT 2. 2-50 SME
C411	★87-010-221-019	CAP, ELECT 470-10
C451	★87-018-131-019	CAP, CERA-SOL U 1000P-50 B
C453	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C454	★87-018-119-019	CAP, CERA-SOL U 100P-50 B
C501	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X(HE, LH)
C501	★87-018-128-019	CAP, CERA-SOL U 560P-50 B (U, E, K, Z)
C502	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X(HE, LH)
C502	★87-018-128-019	CAP, CERA-SOL U 560P-50 B (U, E, K, Z)
C503	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C504	★87-018-132-019	CAP, CERA-SOL U 2200P-16 X
C505	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C506	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C511	★87-010-545-019	CAP, ELECT 0. 22-50 SME(HE, LH)
C511	★87-010-825-019	CAP, ELECT 0. 56-50 SME(U, E, K, Z)
C512	★87-010-545-019	CAP, ELECT 0. 22-50 SME(HE, LH)
C512	★87-010-825-019	CAP, ELECT 0. 56-50 SME(U, E, K, Z)
C513	★87-010-546-019	CAP, ELECT 0. 33-50 SME(U, E, K, Z)
C514	★87-010-546-019	CAP, ELECT 0. 33-50 SME(U, E, K, Z)
C515	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C516	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C517	★87-010-371-019	CAP, ELECT 470-6. 3
C518	★87-010-401-019	CAP, ELECT 1-50 SME(HE, LH)
C518	★87-010-101-019	CAP, ELECT 220-16 SME(U, E, K, Z)
C519	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C520	★87-010-404-019	CAP, ELECT 4. 7-50 SME
C521	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X (U, E, K, Z)
C522	★87-018-195-019	CAP, CERA-SOL U 1200P-16 X (U, E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
C523	★87-010-382-019	CAP, ELECT 22-25 SME(U, E, K, Z)
C601	★87-010-404-019	CAP, ELECT 4.7-50 SME
C602	★87-010-381-019	CAP, ELECT 330-16 SME
C603	★87-010-101-019	CAP, ELECT 220-16 SME
C604	★87-010-237-019	CAP, ELECT 1000-16
C801	★87-010-371-019	CAP, ELECT 470-6.3
C802	★87-010-404-019	CAP, ELECT 4.7-50 SME
C803	★87-018-205-019	CAP, CERA-SOL U 0.022-25 F
C804	★87-010-382-019	CAP, ELECT 22-25 SME
C805	★87-018-205-019	CAP, CERA-SOL U 0.022-25 F
C806	★87-010-400-019	CAP, ELECT 0.47-50 SME
C809	★87-010-546-019	CAP, ELECT 0.33-50 SME
C901	★87-018-205-019	CAP, CERA-SOL U 0.022-25 F
C902	★87-018-134-019	CAP, CERA-SOL U 0.01-16 Y
C951	★87-010-263-019	CAP, ELECT 100-10(HE, LH)
CF801	★89-MX1-704-019	CERA LOCK(MU)3.9MHZ
EM101	★87-008-372-019	FILTER, EMI BL OIRNI
EM102	★87-008-372-019	FILTER, EMI BL OIRNI(E, K, Z)
⚠FR601	87-029-098-019	RES, FUSE 47-1/2W
⚠FR701	87-029-019-019	RES, FUSE 2.2-1/2W
L301	★87-005-525-019	COIL, 22MMH-J
L302	★87-005-525-019	COIL, 22MMH-J
L303	★87-003-131-019	COIL, 10MMH J
L304	★87-003-131-019	COIL, 10MMH J
L305	★87-003-123-019	COIL, 2.2MMH J
L306	★87-003-123-019	COIL, 2.2MMH J
L307	★87-005-130-019	COIL, 10UH(U, E, K, Z)
L308	★87-005-130-019	COIL, 10UH(U, E, K, Z)
L401	80-VW1-605-110	COIL, OSC BIAS 108K
L601	★87-003-060-019	COIL, 12UH
R405	★87-025-471-019	RES, NF 4.7-1/4W J
SFR101	★87-024-349-019	SFR, 1K
SFR102	★87-024-349-019	SFR, 1K
SFR201	★87-024-349-019	SFR, 1K
SFR202	★87-024-349-019	SFR, 1K
SFR301	★87-024-353-019	SFR, 10K
SFR302	★87-024-353-019	SFR, 10K
SFR401	★87-024-356-019	SFR, 47K
SFR402	★87-024-356-019	SFR, 47K

===CD MAIN CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C2	★87-010-146-019	CAP, CHIP S 2P-50 CH
C3	★87-010-154-019	CAP, CHIP S 10P-50 CH
C4	★87-010-263-019	CAP, ELECT 100-10
C5	★87-010-178-019	CAP, CHIP S 1000P-50 B
C6	★87-010-382-019	CAP, ELECT 22-25 SME
C7	★87-010-197-019	CAP, CHIP S 0.01-25 B
C8	★87-010-248-019	CAP, ELECT 220-10 SME
C9	★87-010-193-019	CAP, CHIP S 0.033-25 F
C10	★87-010-188-019	CAP, CHIP S 6800P-50 B
C11	★87-010-198-019	CAP, CHIP S 0.022-25 B
C12	★87-010-193-019	CAP, CHIP S 0.033-25 F
C13	★87-010-193-019	CAP, CHIP S 0.033-25 F
C14	★87-010-197-019	CAP, CHIP S 0.01-25 B
C15	★87-010-263-019	CAP, ELECT 100-10
C16	★87-010-197-019	CAP, CHIP S 0.01-25 B
C17	★87-010-248-019	CAP, ELECT 220-10 SME
C18	★87-010-400-019	CAP, ELECT 0.47-50 SME
C19	★87-010-197-019	CAP, CHIP S 0.01-25 B
C20	★87-010-197-019	CAP, CHIP S 0.01-25 B
C21	★87-010-182-019	CAP, CHIP S 2200P-50 B
C22	★87-010-197-019	CAP, CHIP S 0.01-25 B
C25	★87-010-405-019	CAP, ELECT 10-50 SME
C27	★87-010-382-019	CAP, ELECT 22-25 SME
C28	★87-010-382-019	CAP, ELECT 22-25 SME
C29	★87-010-403-019	CAP, ELECT 3.3-50 SME
C32	★87-010-197-080	CAP, CHIP S 0.01-25 B
C33	★87-010-400-019	CAP, ELECT 0.47-50 SME

REF. NO.	PART NO.	DESCRIPTION
C35	★87-010-178-019	CAP, CHIP S 1000P-50 B
C36	★87-010-374-019	CAP, ELECT 47-10
C37	★87-010-401-019	CAP, ELECT 1-50 SME
C38	★87-010-186-019	CAP, CHIP S 4700P-50 B
C39	★87-010-401-019	CAP, ELECT 1-50 SME
C40	★87-015-819-019	CAP, CHIP 0.01BK
C41	★87-010-318-019	CAP, CHIP S 47P-50 CH
C42	★87-010-197-019	CAP, CHIP S 0.01-25 B
C51	★87-010-197-019	CAP, CHIP S 0.01-25 B
C52	★87-010-263-019	CAP, ELECT 100-10
C53	★87-010-318-019	CAP, CHIP S 47P-50 CH
C54	★87-010-318-019	CAP, CHIP S 47P-50 CH
C55	★87-010-318-019	CAP, CHIP S 47P-50 CH
C56	★87-010-196-019	CAP, CHIP S 0.1-25 F
C80	★87-010-196-019	CAP, CHIP S 0.1-25 F
C81	★87-010-221-019	CAP, ELECT 470-10
C82	★87-010-197-019	CAP, CHIP S 0.01-25 B
C83	★87-010-196-019	CAP, CHIP S 0.1-25 F
C84	★87-010-196-019	CAP, CHIP S 0.1-25 F
C85	★87-010-196-019	CAP, CHIP S 0.1-25 F
C86	★87-010-248-019	CAP, ELECT 220-10 SME
C87	★87-010-197-019	CAP, CHIP S 0.01-25 B
C88	★87-010-221-019	CAP, ELECT 470-10
C89	★87-010-197-019	CAP, CHIP S 0.01-25 B
C90	★87-010-404-019	CAP, ELECT 4.7-50 SME
C100	★87-010-374-019	CAP, ELECT 47-10
C101	★87-010-196-019	CAP, CHIP S 0.1-25 F
C102	★87-010-221-019	CAP, ELECT 470-10
C103	★87-010-197-019	CAP, CHIP S 0.01-25 B
C104	★87-010-197-019	CAP, CHIP S 0.01-25 B
C105	★87-010-196-019	CAP, CHIP S 0.1-25 F
C106	★87-010-197-019	CAP, CHIP S 0.01-25 B
C107	★87-010-263-019	CAP, ELECT 100-10
C108	★87-010-197-019	CAP, CHIP S 0.01-25 B
C109	★87-010-197-019	CAP, CHIP S 0.01-25 B
C110	★87-010-384-019	CAP, ELECT 100-25 SME
C151	★87-010-322-019	CAP, CHIP 100P CH
C152	★87-010-322-019	CAP, CHIP 100P CH
C153	★87-010-319-019	CAP, CHIP 56P CH
C154	★87-010-319-019	CAP, CHIP 56P CH
C155	★87-010-319-019	CAP, CHIP 56P CH
C156	★87-010-319-019	CAP, CHIP 56P CH
C157	★87-010-405-019	CAP, ELECT 10-50 SME
C158	★87-010-405-019	CAP, ELECT 10-50 SME
C159	★87-010-176-010	CAP, CHIP 680P BK
C160	★87-010-176-019	CAP, CHIP 680P BK
C171	★87-010-248-019	CAP, ELECT 220-10 SME
C172	★87-010-197-019	CAP, CHIP S 0.01-25 B
C173	★87-010-154-019	CAP, CHIP S 10P-50 CH
C174	★87-010-317-019	CAP, CHIP 39P CH(HE, LH, U, K)
C174	★87-010-318-019	CAP, CHIP 47P-50 CH(E, Z)
C175	★87-010-196-019	CAP, CHIP S 0.1-25 F
C176	★87-010-197-019	CAP, CHIP S 0.01-25 B
C177	★87-010-370-019	CAP, ELECT 330-6.3 SME
C178	★87-010-263-019	CAP, ELECT 100-10
C179	★87-010-197-019	CAP, CHIP S 0.01-25 B
C180	★87-010-197-019	CAP, CHIP S 0.01-25 B
C181	★87-010-197-019	CAP, CHIP S 0.01-25 B
C182	★87-010-197-019	CAP, CHIP S 0.01-25 B
C200	★87-010-196-019	CAP, CHIP S 0.1-25 F
EM1	★87-008-474-019	FERRITE BEAD, EMI BL02RN1
EM2	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM2	★87-005-521-019	FERRITE BEAD, EMI BLM32A06(E, Z)
EM3	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM3	★87-005-521-019	FERRITE BEAD, EMI BLM32A06(E, Z)

REF. NO.	PART NO.	DESCRIPTION
EM4	★87-005-512-019	FERRITE BEAD, EMI BLM21A05 (HE, LH, U, K)
EM4	★87-005-521-019	FERRITE BEAD, EMI BLM32A06(E, Z)
L1	★87-003-295-019	COIL, 10UH
J8	★87-002-211-010	IC, GP1F32T(DIGITAL OUT)
L2	★87-003-295-019	COIL, 10UH
L171	★87-003-295-019	COIL, 10UH
R28	87-022-359-019	RES, CHIP S 22K-1/10W F
R29	87-022-359-019	RES, CHIP S 22K-1/10W F
R30	87-022-396-019	RES, CHIP S 3.6K-1/10W F
R31	87-022-350-019	RES, CHIP S 3.3K-1/10W F (HE, LH, E, Z)
SFR1	★87-024-173-019	SFR, 22K
SFR2	★87-024-173-019	SFR, 22K
SFR3	★87-024-173-019	SFR, 22K
SFR4	★87-024-302-019	SFR, 1K CERMET
SFR5	★87-024-302-019	SFR, 1K CERMET(HE, LH, E, Z)
X1	★84-733-617-010	RESONATOR, CRYSTAL 16.9344MHZ

===LED CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
C930	★87-015-681-010	CAP, ELECT 10-16 7L
D930	87-001-161-010	LED, SEL2410E(DECK1>)
D931	87-001-161-010	LED, SEL2410E(DECK1<)
D932	87-001-161-010	LED, SEL2410E(DECK2>)
D933	87-001-161-010	LED, SEL2410E(DECK2<)
D934	87-001-161-010	LED, SEL2410E(⇄)
D935	87-001-161-010	LED, SEL2410E(⇄)
D936	87-001-162-010	LED, SEL2210W(DOLBY C)(U, E, K, Z)
D937	87-001-161-010	LED, SEL2410E(DOLBY NR)(HE, LH) (DOLBY B)(U, E, K, Z)
D938	87-001-161-010	LED, SEL2410E(CD)
D939	87-001-162-010	LED, SEL2210W(SYNC DUBB)
S931	87-036-215-010	TACT SW(OPEN/CLOSE)(HE, LH, U)
S931	87-036-259-018	TACT SW(OPEN/CLOSE)(E, K, Z)

===TACT CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
D901	87-002-816-010	LED, SEL2415E GRN(◀)
D902	87-002-816-010	LED, SEL2415E GRN(▶)
D903	87-002-816-010	LED, SEL2415E GRN(▮▮)
D904	87-002-816-010	LED, SEL2415E GRN(■)
D905	87-002-816-010	LED, SEL2415E GRN(▶▶)
D906	87-002-816-010	LED, SEL2415E GRN(◀◀)
D907	87-002-817-010	LED, SEL2215S RED(●)
S901	87-036-270-019	TACT SW(REV MODE)
S902	87-036-270-019	TACT SW(DOLBY NR)
S903	87-036-215-019	TACT SW(NORM)(HE, LH, U)
S903	87-036-259-018	TACT SW(NORM)(E, K, Z)
S904	87-036-215-019	TACT SW(HIGH)(HE, LH, U)
S904	87-036-259-018	TACT SW(HIGH)(E, K, Z)
S905	87-036-215-019	TACT SW(REC/REC MUTE)(HE, LH, U)
S905	87-036-259-018	TACT SW(REC/REC MUTE)(E, K, Z)
S906	87-036-215-019	TACT SW(▮▮)(HE, LH, U)

REF. NO.	PART NO.	DESCRIPTION
S906	87-036-259-018	TACT SW(▮▮)(E, K, Z)
S907	87-036-215-019	TACT SW(■)(HE, LH, U)
S907	87-036-259-018	TACT SW(■)(E, K, Z)
S908	87-036-215-019	TACT SW(PLAY/DIR)(HE, LH, U)
S908	87-036-259-018	TACT SW(PLAY/DIR)(E, K, Z)
S909	87-036-270-019	TACT SW(◀◀)
S910	87-036-270-019	TACT SW(▶▶)

===DECK-1 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
SOL1	★86-575-622-010	SOLENOID ASSY(FR)
SOL2	★86-575-622-010	SOLENOID ASSY(PLAY)
SW1	87-036-110-010	PUSH SW(CrO2)
SW2	87-036-110-010	PUSH SW(CST)
SW3	86-575-632-110	LEAF SW(FR)
SW4	87-036-110-010	PUSH SW(PLAY)

===DECK-2 CIRCUIT BOARD SECITON===

REF. NO.	PART NO.	DESCRIPTION
SOL11	★86-575-622-010	SOLENOID ASSY(FR)
SOL12	★86-575-622-010	SOLENOID ASSY(PLAY)
SW11	87-036-110-010	PUSH SW(MT)
SW12	87-036-110-010	PUSH SW(REB)
SW13	87-036-109-010	PUSH SW(REA)
SW14	87-036-110-010	PUSH SW(CrO2)
SW15	87-036-110-010	PUSH SW(CST)
SW16	86-575-632-110	PUSH SW(FR)
SW17	87-036-110-010	PUSH SW(PLAY)
SFR11	★87-024-331-010	SFR 5K
SFR12	★87-024-331-010	SFR 5K
M11	87-045-338-010	MOTOR, SHU2L 05(DECK)

===MOTOR-1 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
M1	9X-262-513-210	MOTOR GEAR ASSY(SLED)
M2	9X-262-513-310	MOTOR ASSY(W/CHASSIS, T.T) (SPINDLE)
SW1	91-572-085-110	LEAF SW(INSIDE LIMIT)

===MOTOR-2 CIRCUIT BOARD SECTION===

REF. NO.	PART NO.	DESCRIPTION
M3	9X-262-511-710	MOTOR ASSY(LOADING)
SW2	91-572-086-110	LEAF SW(OPEN)
SW3	91-572-086-110	LEAF SW(CLOSE)

===RELAY-1 CIRCUIT BOARD SECTION===

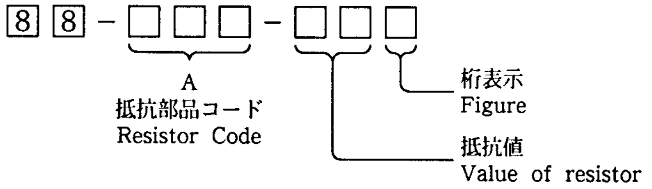
===RELAY-2 CIRCUIT BAORD SECTION===

===MISCELLANEOUS===

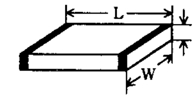
REF. NO.	PART NO.	DESCRIPTION
	98-848-127-110	OPTICAL PICK UP KSS-210A
D812	87-020-109-019	LED, SLF-201C (DECK1 CASSETTE BACK LIGHT)
D813	87-020-109-019	LED, SLF-201C (DECK2 CASSETTE BACK LIGHT)
PH	87-046-355-010	P HEAD(DECK1)
RPEH	87-046-356-010	R.P.E HEAD(DECK2)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

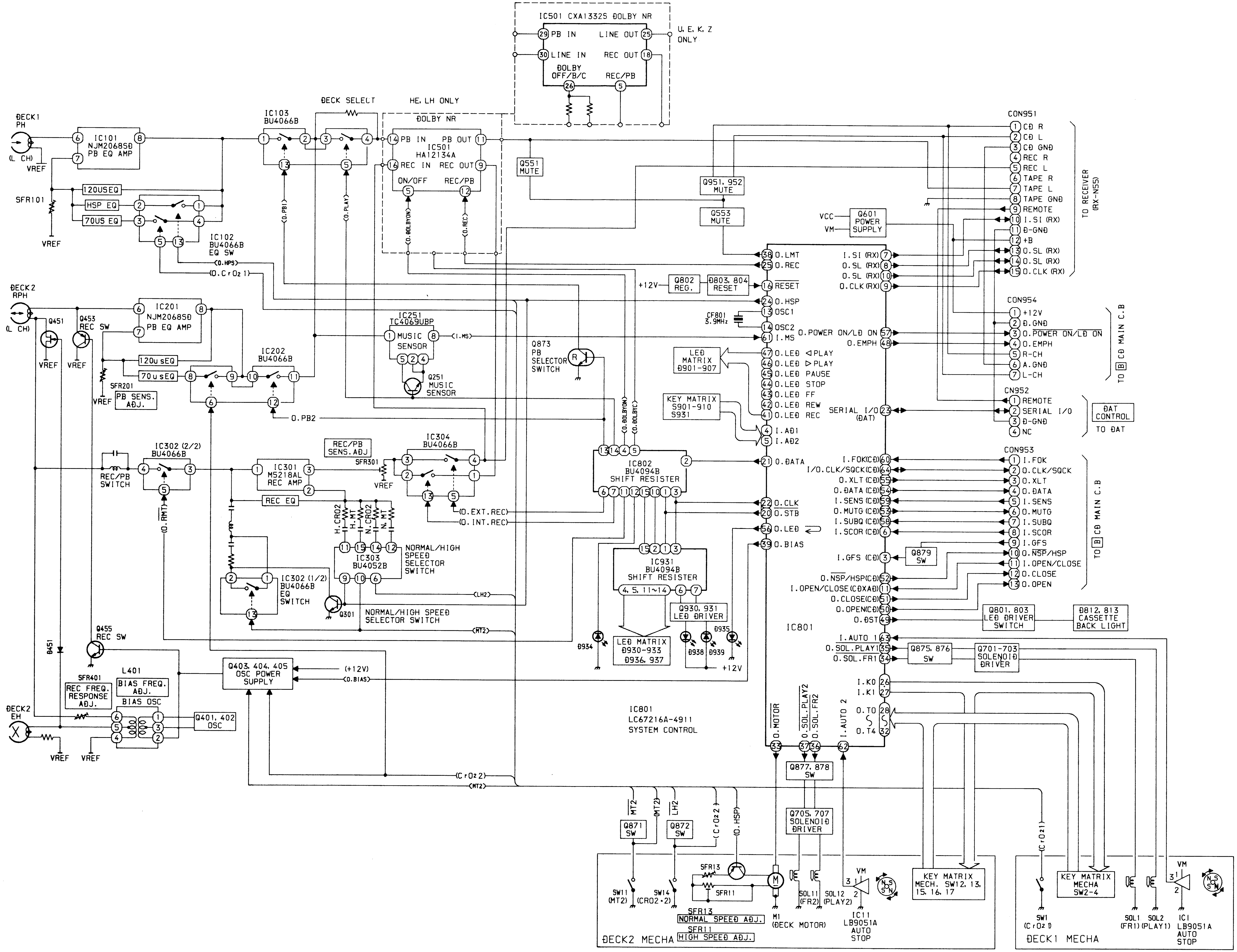
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

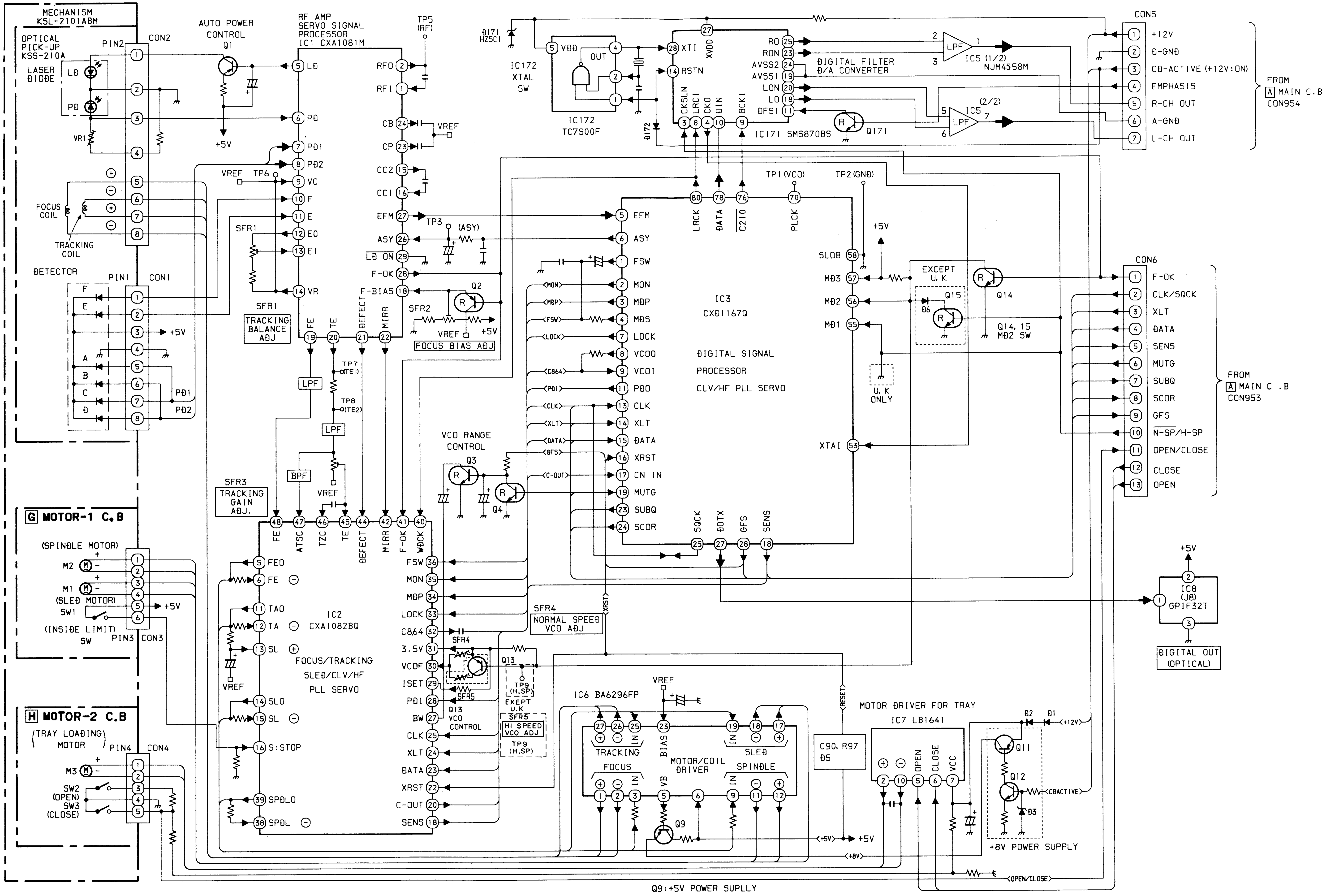
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor Code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM – 1 (FD – N55, DECK)

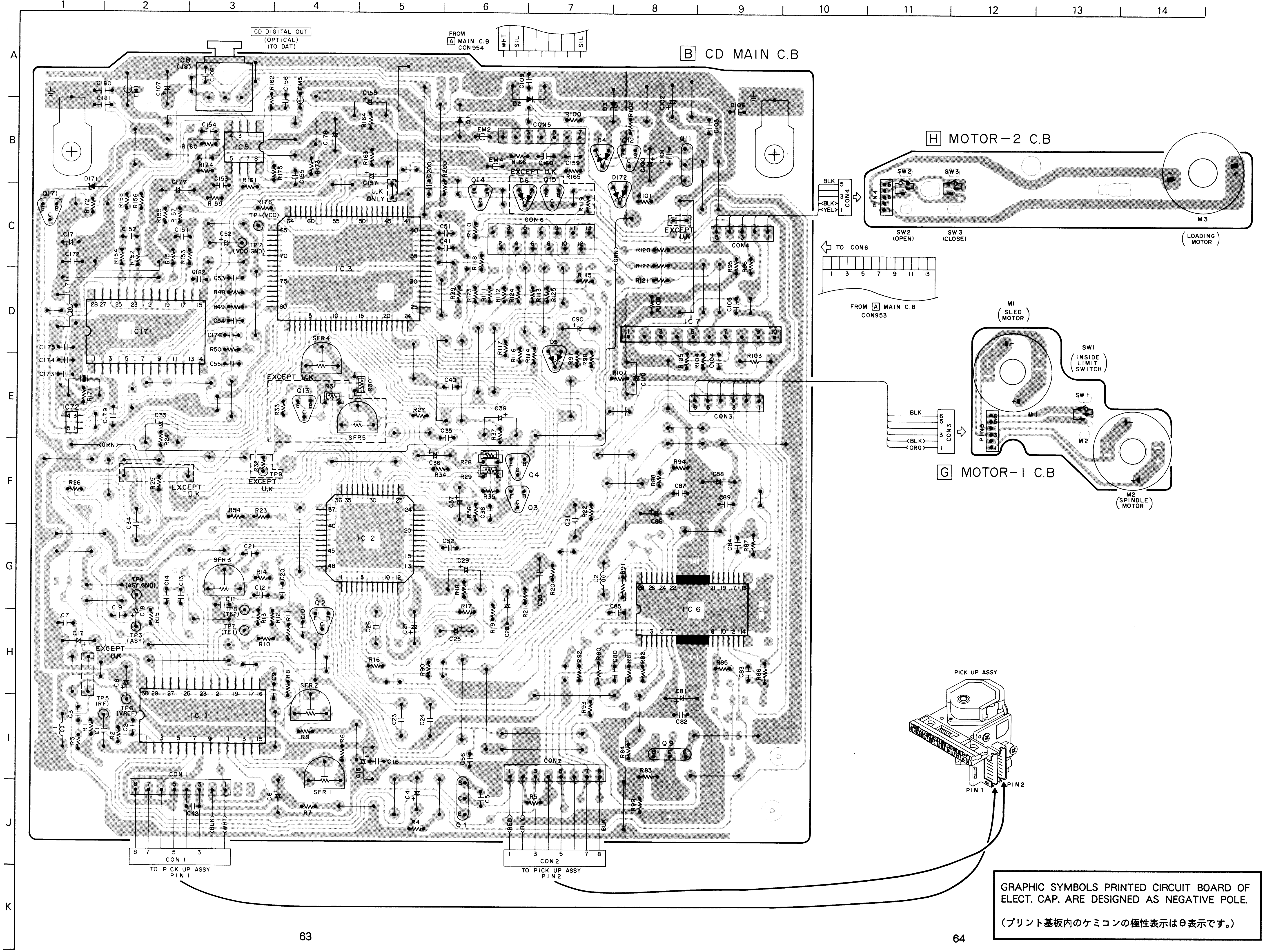


IC501 CXA1332S DOLBY NR
PB IN
LINE OUT
LINE IN
REC OUT
DOLBY OFF/B/C
REC/PB
U, E, K, Z ONLY
DECK SELELT
HE, LH ONLY
DOLBY NR
IC501 HA12134A
REC IN
PB OUT
ON/OFF
DECK1 PH
(L CH)
VREF
IC101 NJM2068SD PB EQ AMP
IC103 BU4066B
SFR101
120USEQ
HSP EQ
70US EQ
IC102 BU4066B EQ SW
(O.HPS)
(O.CrO2 1)
(O.PB1)
(O.PLAY)
(O.DOLBYON)
(O.REC)
Q551 MUTE
Q951, 952 MUTE
Q553 MUTE
Q601 POWER SUPPLY
VCC
VM
DECK2 RPH
Q451
Q453 REC SW
IC201 NJM2068SD PB EQ AMP
120u sEQ
70u sEQ
SFR201
PB SENS. ADJ.
IC202 BU4066B
O.PB2
IC251 TC4069UBP
MUSIC SENSOR
(I.MS)
Q251 MUSIC SENSOR
Q873 PB SELECTOR SWITCH
IC302 (2/2) BU4066B
REC/PB SWITCH
(O.RMT)
IC301 M5218AL REC AMP
REC/PB SENS.ADJ
SFR301
REC EQ
IC304 BU4066B
(O.EXT.REC)
(O.INT.REC)
H.CRO2
H.MT
N.CRO2
N.MT
IC303 BU4052B
NORMAL/HIGH SPEED SELECTOR SWITCH
IC302 (1/2) BU4066B EQ SWITCH
Q301
(LH2)
(MT2)
Q455 REC SW
D451
SFR401
REC FREQ. RESPONSE ADJ.
L401
BIAS FREQ. ADJ.
BIAS OSC
Q401, 402 OSC
Q403, 404, 405 OSC POWER SUPPLY
(+12V)
(O.BIAS)
(CrO2 2)
DECK2 EH
IC802 BU4094B SHIFT RESISTER
(O.DOLBYON)
(O.DOLBYC)
IC931 BU4094B SHIFT RESISTER
4, 5, 11~14
Q930, 931 LED DRIVER
LED MATRIX D930-933 D936, 937
D934
D938 D939
D935
+12V
Q802 REG.
D803, 804 RESET
CF801 3.9MHz
LED MATRIX D901-907
KEY MATRIX S901-910 S931
O.LMT
O.REC
RESET
O.HSP
OSC1
OSC2
I.MS
O.LED ◁PLAY
O.LED ▷PLAY
O.LED PAUSE
O.LED STOP
O.LED FF
O.LED REW
O.LED REC
I.AD1
I.AD2
O.DATA
O.CLK
O.STB
O.LED
O.BIAS
I.SI (RX)
O.SL (RX)
O.SL (RX)
O.CLK (RX)
O.POWER ON/LD ON
O.EMPH
SERIAL I/O (DAT)
I.FOK(CD)
I/O.CLK/SQCK(CD)
O.XLT (CD)
O.DATA (CD)
I.SENS (CD)
O.MUTG (CD)
I.SUBQ (CD)
I.SCOR (CD)
I.GFS (CD)
Q879 SW
O.NSP/HSP(CD)
I.OPEN/CLOSE(CDXAD)
O.CLOSE(CD)
O.OPEN(CD)
O.DST
IC801
Q801, 803 LED DRIVER SWITCH
D812, 813 CASSETTE BACK LIGHT
I.AUTO 1
O.SOL.PLAY1
O.SOL.FR1
Q875, 876 SW
Q701-703 SOLENOID DRIVER
I.K0
I.K1
O.T0
O.T4
IC801 LC67216A-4911 SYSTEM CONTROL
O.MOTOR
O.SOL.PLAY2
O.SOL.FR2
I.AUTO 2
Q877, 878 SW
Q705, 707 SOLENOID DRIVER
CON951
CD R
CD L
CD GND
REC R
REC L
TAPE R
TAPE L
TAPE GND
REMOTE
I.SI (RX)
D-GND
+B
O.SL (RX)
O.SL (RX)
O.CLK (RX)
TO RECEIVER (RX-N55)
CON954
+12V
D.GND
O.POWER ON/LD ON
O.EMPH
R-CH
A.GND
L-CH
TO B CD MAIN C.B
CN952
REMOTE
SERIAL I/O
D-GND
NC
DAT CONTROL
TO DAT
CON953
I.FOK
O.CLK/SQCK
O.XLT
O.DATA
I.SENS
O.MUTG
I.SUBQ
I.SCOR
I.GFS
O.NSP/HSP
I.OPEN/CLOSE
O.CLOSE
O.OPEN
TO B CD MAIN C.B
MT2
(MT2)
LH2
(CrO2 2)
(O.HSP)
Q871 SW
Q872 SW
SFR13
SFR11
SW11 (MT2)
SW14 (CRO2·2)
SFR13 NORMAL SPEED ADJ.
SFR11 HIGH SPEED ADJ.
M1 (DECK MOTOR)
SOL11 (FR2)
SOL12 (PLAY2)
VM
IC11 LB9051A AUTO STOP
DECK2 MECHA
KEY MATRIX MECH. SW12, 13, 15, 16, 17
(CrO2 1)
SW1 (CrO2 1)
KEY MATRIX MECHA SW2-4
SOL1 (FR1)
SOL2 (PLAY1)
IC1 LB9051A AUTO STOP
DECK1 MECHA

BLOCK DIAGRAM – 2 (FD – N55, CD)


MECHANISM
KSL-2101ABM
OPTICAL PICK-UP KSS-210A
PIN2
CON2
LASER DIODE
LD
PD
VR1
FOCUS COIL
TRACKING COIL
DETECTOR
PIN1
CON1
F
E
A
B
C
D
+5V
PD1
PD2
AUTO POWER CONTROL
Q1
RF AMP
SERVO SIGNAL PROCESSOR
IC1 CXA1081M
LD
PD
PD1
PD2
VC
F
E
EO
EI
VR
RFO
RFI
CB
CP
CC2
CC1
EFM
ASY
LD ON
F-OK
F-BIAS
FE
TE
DEFECT
MIRR
TP5 (RF)
VREF
TP6
TP3
(ASY)
SFR1
TRACKING BALANCE ADJ
SFR2
Q2
VREF
FOCUS BIAS ADJ
TP7 (TE1)
TP8 (TE2)
LPF
BPF
SFR3
TRACKING GAIN ADJ.
VCO RANGE CONTROL
Q3
Q4
D171 HZ5C1
IC172 XTAL SW
VDD
OUT
IC172 TC7S00F
XTI
RSTN
XVDD
CKSLN
LRCI
CKO
DIN
BCKI
RO
RON
AVSS2
AVSS1
LON
LO
DFS1
DIGITAL FILTER D/A CONVERTER
IC171 SM5870BS
D172
Q171
LPF
IC5 (1/2) NJM4558M
IC5 (2/2)
CON5
+12V
D-GND
CD-ACTIVE (+12V:ON)
EMPHASIS
R-CH OUT
A-GND
L-CH OUT
FROM A MAIN C.B CON954
TP1 (VCO)
TP2 (GND)
LRCK
DATA
C210
PLCK
IC3 CXD1167Q
DIGITAL SIGNAL PROCESSOR
CLV/HF PLL SERVO
EFM
ASY
FSW
MON
MDP
MDS
LOCK
VCOO
VCOI
PDO
CLK
XLT
DATA
XRST
CN IN
MUTG
SUBQ
SCOR
SQCK
DOTX
GFS
SENS
SLOB
MD3
MD2
MD1
XTAI
+5V
EXCEPT U. K
Q15
D6
U. K ONLY
Q14
Q14, 15 MD2 SW
CON6
F-OK
CLK/SQCK
XLT
DATA
SENS
MUTG
SUBQ
SCOR
GFS
N-SP/H-SP
OPEN/CLOSE
CLOSE
OPEN
FROM A MAIN C .B CON953
G MOTOR-1 C.B
(SPINDLE MOTOR)
M2
M1
(SLED MOTOR)
SW1
(INSIDE LIMIT) SW
PIN3
CON3
H MOTOR-2 C.B
(TRAY LOADING MOTOR)
M3
SW2 (OPEN)
SW3 (CLOSE)
PIN4
CON4
IC2 CXA1082BQ
FOCUS/TRACKING SLED/CLV/HF PLL SERVO
FE
ATSC
TZC
TE
DEFECT
MIRR
F-OK
WDCK
FEO
FE
TAO
TA
SL
VREF
SLO
SL
S:STOP
SPDLO
SPDL
FSW
MON
MDP
LOCK
C864
3.5V
VCOF
ISET
PDI
BW
CLK
XLT
DATA
XRST
C-OUT
SENS
SFR4
NORMAL SPEED VCO ADJ
SFR4
Q13
SFR5
TP9 (H.SP)
EXEPT U.K
Q13 VCO CONTROL
SFR5 HI SPEED VCO ADJ
TP9 (H.SP)
IC6 BA6296FP
VREF
TRACKING
FOCUS
BIAS
VB
MOTOR/COIL DRIVER
SLED
SPINDLE
IN
Q9
C90, R97 D5
(RESET)
MOTOR DRIVER FOR TRAY
IC7 LB1641
OPEN
CLOSE
VCC
D2
D1
(+12V)
Q11
Q12
(CDACTIVE)
D3
+8V POWER SUPPLY
(+5V)
(+8V)
(OPEN/CLOSE)
Q9:+5V POWER SUPLLY
IC8 (J8) GP1F32T
DIGITAL OUT (OPTICAL)

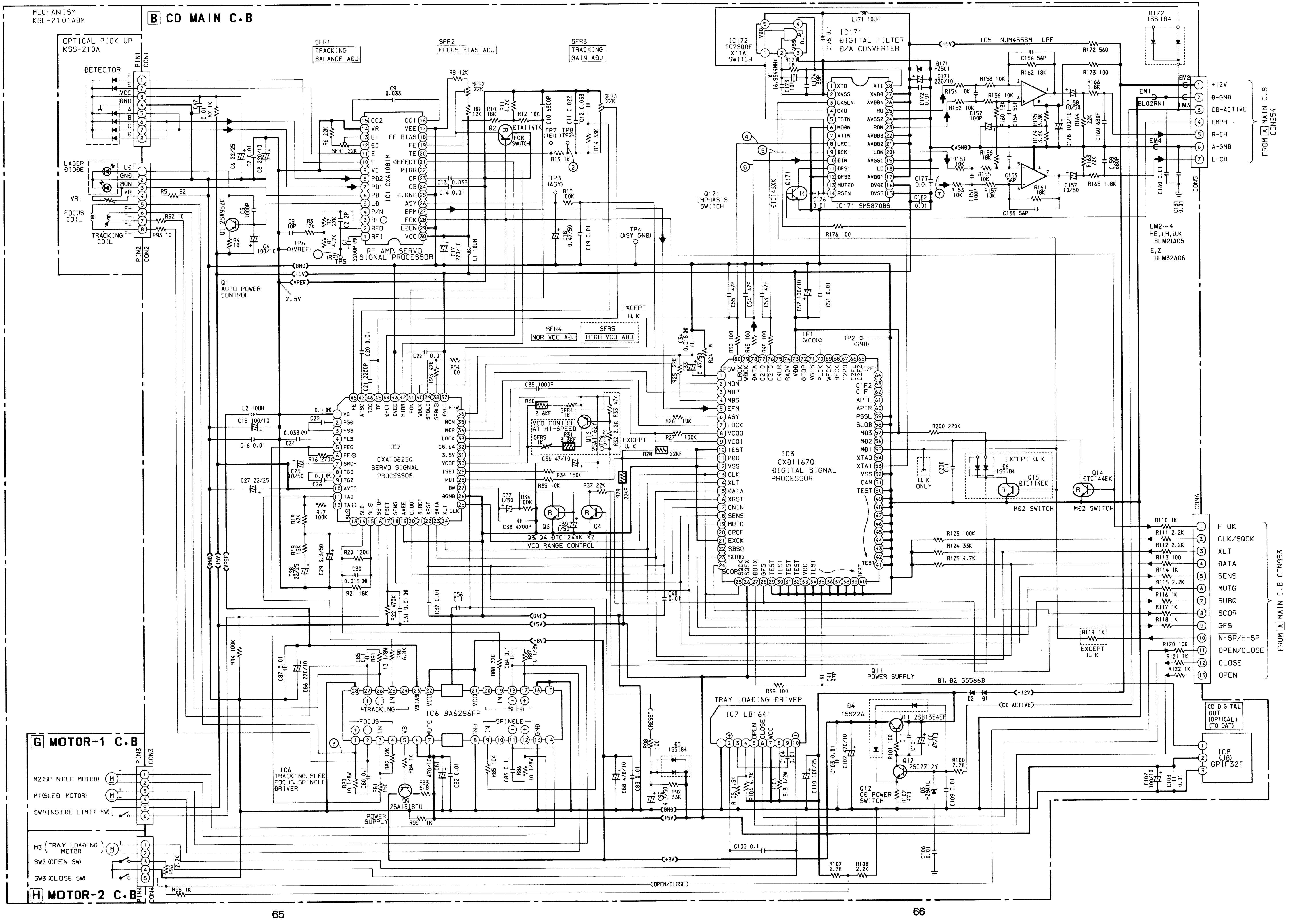
WIRING – 1 (FD – N55, CD)

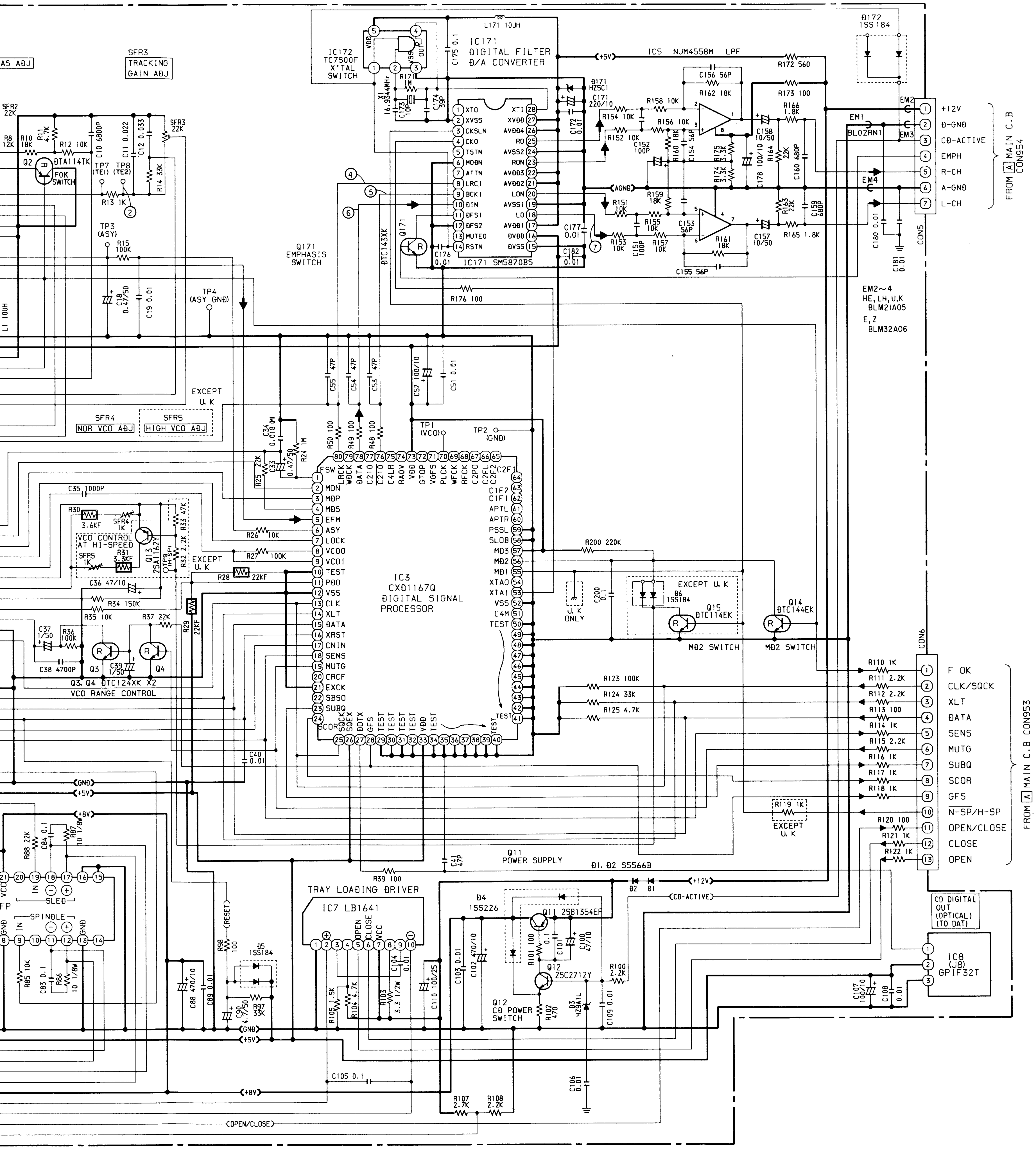

B CD MAIN C.B
CD DIGITAL OUT (OPTICAL) (TO DAT)
FROM A MAIN C.B CON954
WHT
SIL
SIL
IC8 (J8)
IC5
IC3
IC171
IC72
IC2
IC1
IC6
IC7
CON1
CON2
CON3
CON4
CON5
CON6
EXCEPT U.K
U.K ONLY
TP1 (VCO)
TP2 (VCO GND)
TP3 (ASY)
TP4 (ASY GND)
TP5 (RF)
TP6 (VREF)
TP7 (TE1)
TP8 (TE2)
TP9
SFR1
SFR2
SFR3
SFR4
SFR5
H MOTOR – 2 C.B
SW2
SW3
SW2 (OPEN)
SW3 (CLOSE)
M3
(LOADING MOTOR)
TO CON6
FROM A MAIN C.B CON953
G MOTOR – 1 C.B
M1 (SLED MOTOR)
SW1 (INSIDE LIMIT SWITCH)
M2 (SPINDLE MOTOR)
PICK UP ASSY
PIN 1
PIN 2
TO PICK UP ASSY PIN 1
TO PICK UP ASSY PIN 2
BLK
YEL
ORG
GRN
RED
WHT

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

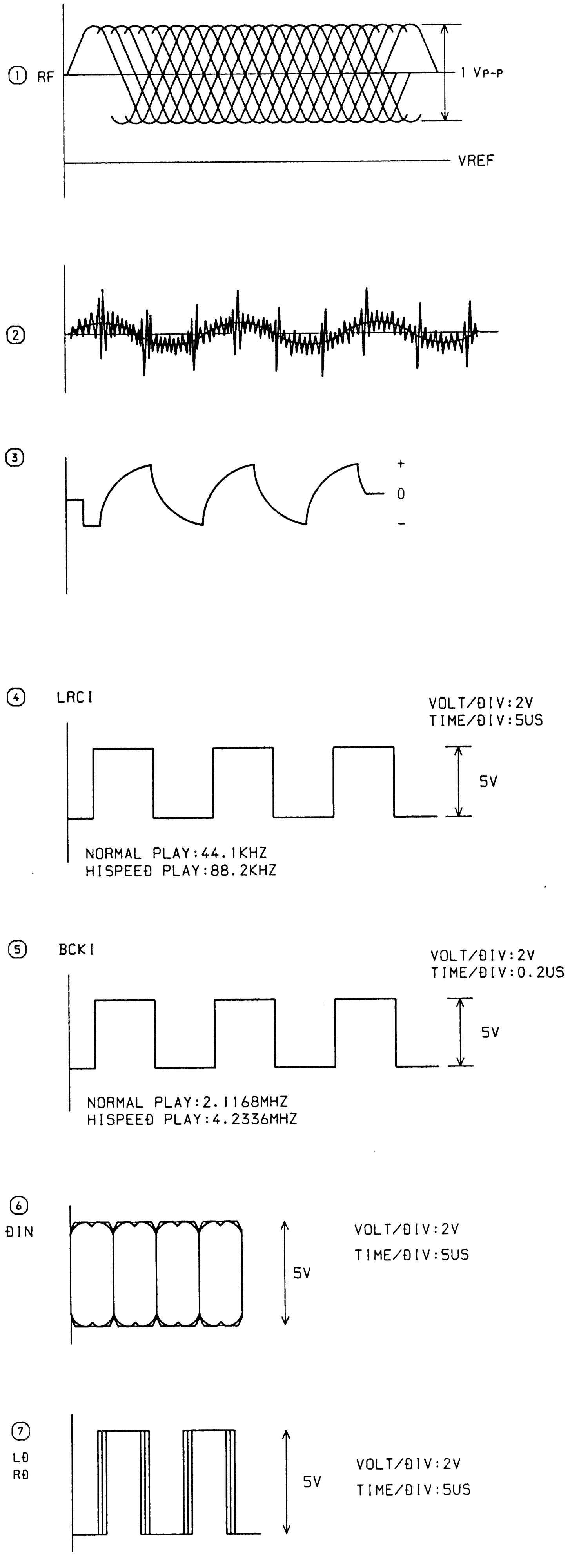
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 1 (FD – N55, CD)

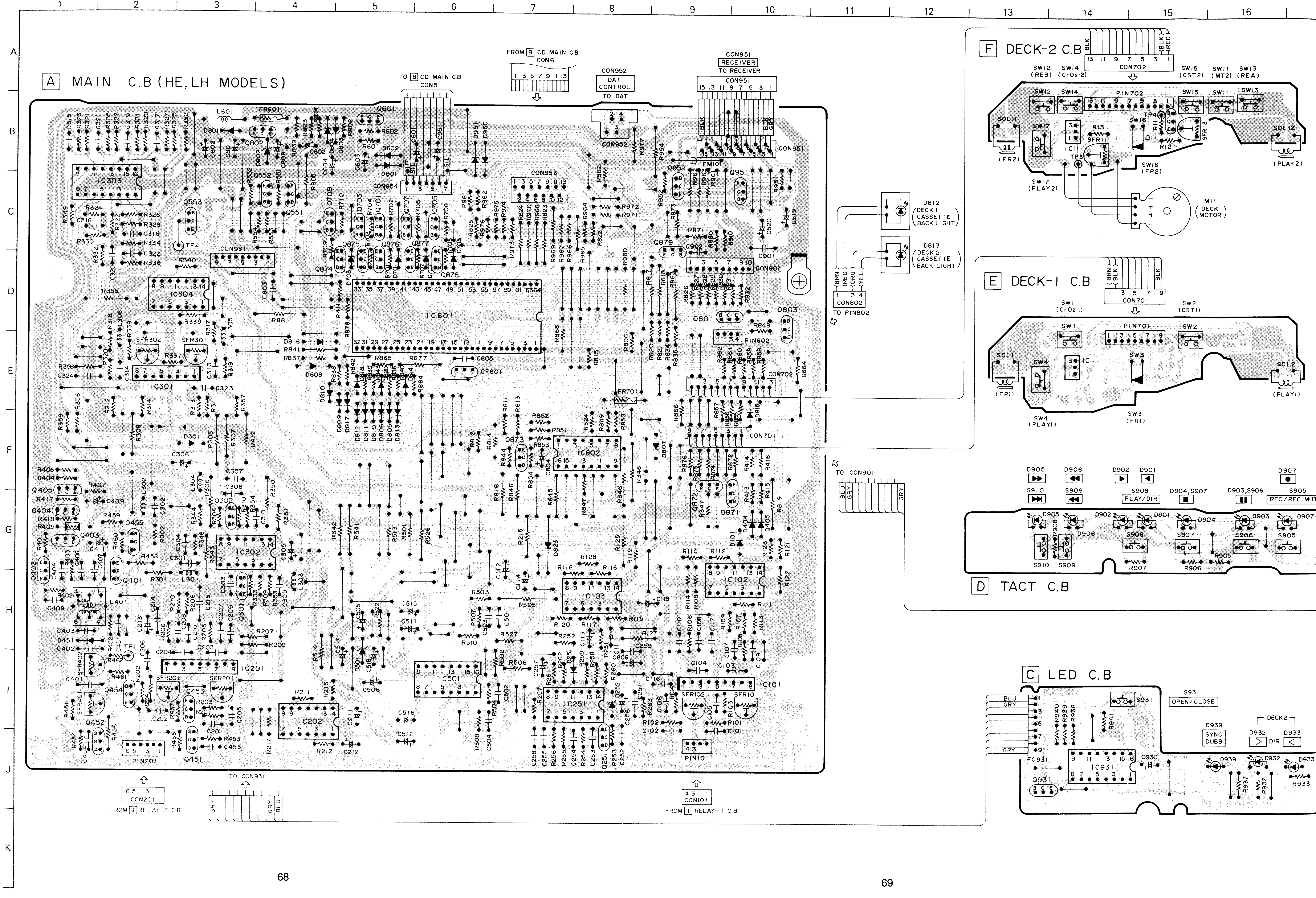

MECHANISM
KSL-2101ABM
OPTICAL PICK UP
KSS-210A
DETECTOR
LASER DIODE
VR1
FOCUS COIL
TRACKING COIL
B CD MAIN C.B
SFR1 TRACKING BALANCE ADJ
SFR2 FOCUS BIAS ADJ
SFR3 TRACKING GAIN ADJ
IC1 CXA1081M
RF AMP, SERVO SIGNAL PROCESSOR
Q1 2SA952K
Q1 AUTO POWER CONTROL
Q2 DTA114TK
FOK SWITCH
TP1 (VCO)
TP2 (GND)
TP3 (ASY)
TP4 (ASY GND)
TP5 (RF)
TP6 (VREF)
TP7 (TE1)
TP8 (TE2)
L1 10UH
L2 10UH
IC2 CXA1082BQ SERVO SIGNAL PROCESSOR
SFR4 NOR VCO ADJ
SFR5 HIGH VCO ADJ
EXCEPT U.K
VCO CONTROL AT HI-SPEED
Q13 2SA1162Y
Q3, Q4 DTC124XK X2
VCO RANGE CONTROL
IC3 CXD1167Q DIGITAL SIGNAL PROCESSOR
IC171 DIGITAL FILTER D/A CONVERTER
IC171 SM5870BS
IC172 TC7S00F X'TAL SWITCH
X1 16.934MHz
L171 10UH
D171 HZ5C1
Q171 EMPHASIS SWITCH
Q171 DTC143XK
IC5 NJM4558M LPF
D172 1SS184
EM1 BLO2RN1
EM2~4 HE,LH,U.K BLM21A05
E,Z BLM32A06
+12V
D-GND
CD-ACTIVE
EMPH
R-CH
A-GND
L-CH
CON5
FROM A MAIN C.B CON954
D6 1SS184
Q15 DTC114EK
Q14 DTC144EK
MD2 SWITCH
U.K ONLY
CON6
F OK
CLK/SQCK
XLT
DATA
SENS
MUTG
SUBQ
SCOR
GFS
N-SP/H-SP
OPEN/CLOSE
CLOSE
OPEN
FROM A MAIN C.B CON953
R119 1K EXCEPT U.K
Q11 POWER SUPPLY
D1, D2 SS566B
IC6 BA6296FP
IC6 TRACKING, SLED FOCUS, SPINDLE DRIVER
TRACKING
SLED
FOCUS
SPINDLE
Q9 2SA1318TU
POWER SUPPLY
TRAY LOADING DRIVER
IC7 LB1641
D5 1SS184
D4 1SS226
Q11 2SB1354EF
Q12 2SC2712Y
Q12 CD POWER SWITCH
D3 HZ9A1L
CD DIGITAL OUT (OPTICAL) (TO DAT)
IC8 (J8) GP1F32T
G MOTOR-1 C.B
M2 (SPINDLE MOTOR)
M1 (SLED MOTOR)
SW1 (INSIDE LIMIT SW)
M3 (TRAY LOADING MOTOR)
SW2 (OPEN SW)
SW3 (CLOSE SW)
H MOTOR-2 C.B
CON1
CON2
CON3
CON4
GND
+5V
+8V
+12V
VREF
2.5V
OPEN/CLOSE
RESET
CD-ACTIVE

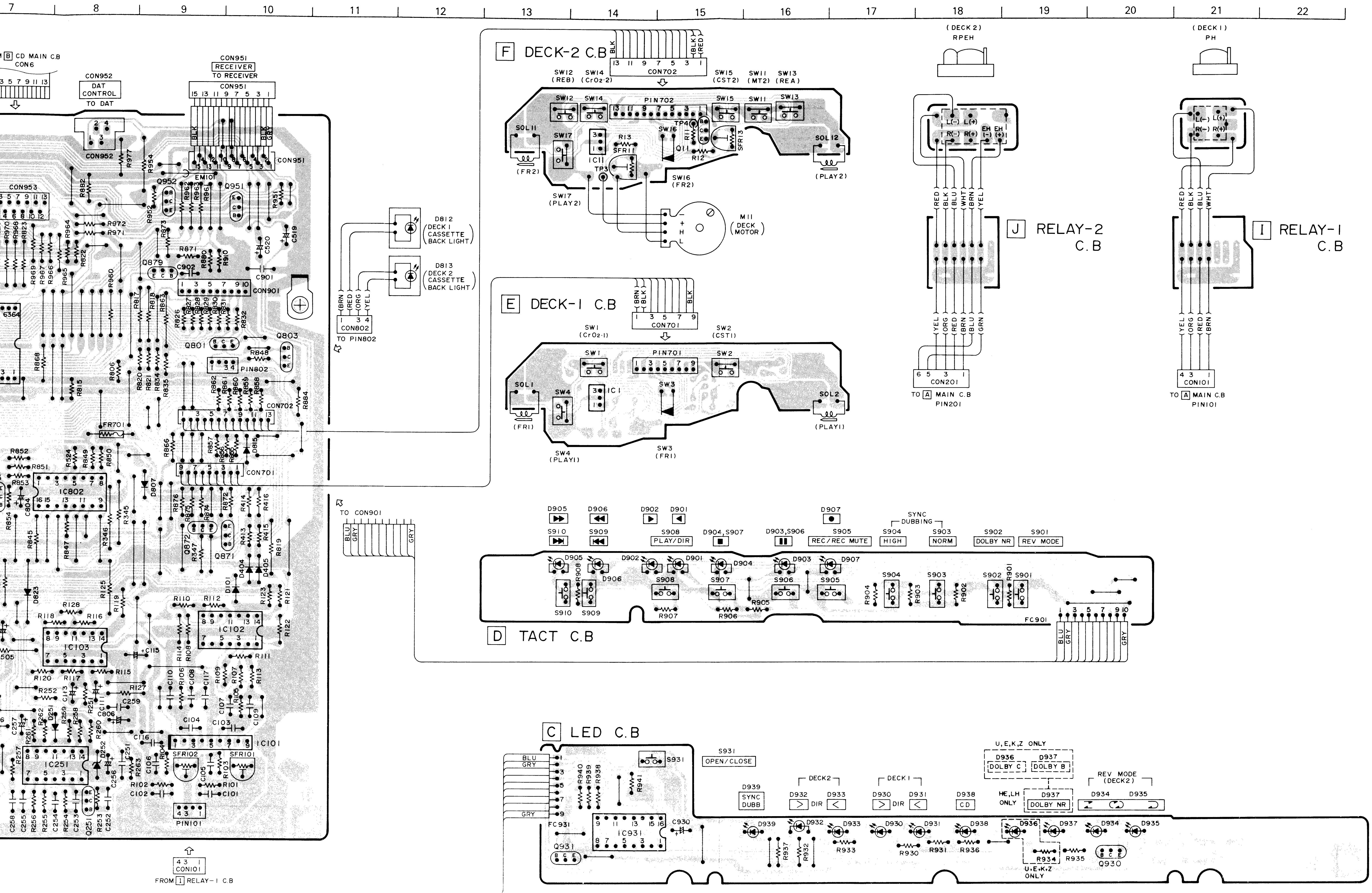

IC171 DIGITAL FILTER D/A CONVERTER
IC171 SM5870BS
IC172 TC7S00F X'TAL SWITCH
X1 16.9344MHz
L171 10UH
IC5 NJM4558M LPF
D171 HZ5C1
D172 1SS184
Q171 EMPHASIS SWITCH
DTC143XK
EM1 BL02RN1
EM2~4
HE,LH,U.K BLM21A05
E,Z BLM32A06
+12V
D-GND
CD-ACTIVE
EMPH
R-CH
A-GND
L-CH
FROM A MAIN C.B CON954
CON5
SFR3 TRACKING GAIN ADJ
SFR2 22K
SFR3 22K
DTA114TK
FOK SWITCH
TP7 (TE1)
TP8 (TE2)
TP3 (ASY)
TP4 (ASY GND)
L1 10UH
EXCEPT U.K
SFR4 NOR VCO ADJ
SFR5 HIGH VCO ADJ
VCO CONTROL AT HI-SPEED
Q13 2SA1162Y
Q3, Q4 DTC124XK X2
VCO RANGE CONTROL
TP1 (VCO)
TP2 (GND)
IC3 CXD1167Q DIGITAL SIGNAL PROCESSOR
U.K ONLY
EXCEPT U.K
D6 1SS184
Q15 DTC114EK
Q14 DTC144EK
MD2 SWITCH
MD2 SWITCH
CON6
F OK
CLK/SQCK
XLT
DATA
SENS
MUTG
SUBQ
SCOR
GFS
N-SP/H-SP
OPEN/CLOSE
CLOSE
OPEN
FROM A MAIN C.B CON953
R119 1K EXCEPT U.K
Q11 POWER SUPPLY
D1, D2 SS566B
TRAY LOADING DRIVER
IC7 LB1641
D4 1SS226
Q11 2SB1354EF
Q12 2SC2712Y
Q12 CD POWER SWITCH
D3 HZ9A1L
D5 1SS184
CD DIGITAL OUT (OPTICAL) (TO DAT)
IC8 (J8) GP1F32T
SLED
SPINDLE
(RESET)
(GND)
(+5V)
(+8V)
(+12V)
(CD-ACTIVE)
(OPEN/CLOSE)
(AGND)

WAVE FORM (FD – N55)



WIRING – 2 (FD – N55, DECK : HE, LH MODELS)

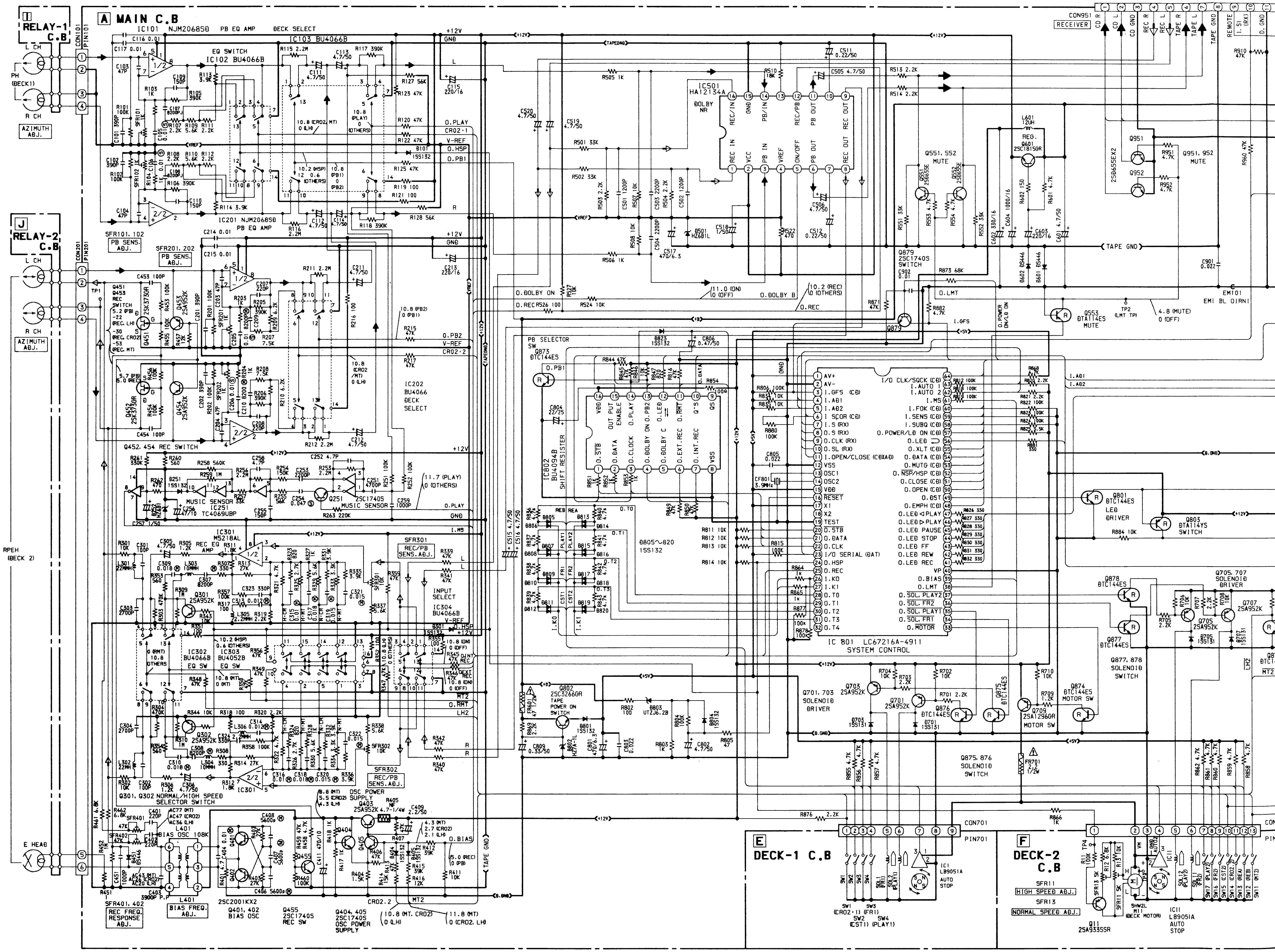

A MAIN C.B (HE,LH MODELS)
TO B CD MAIN C.B CON5
FROM B CD MAIN C.B CON6
CON952 DAT CONTROL TO DAT
CON951 RECEIVER TO RECEIVER
IC801
IC802
IC303
IC304
IC301
IC302
IC201
IC202
IC501
IC103
IC251
IC102
IC101
CON931
CON953
CON954
CON901
CON702
CON701
PIN802
PIN201
PIN101
D812 (DECK 1 CASSETTE BACK LIGHT)
D813 (DECK 2 CASSETTE BACK LIGHT)
CON802 TO PIN802
TO CON901
65 3 1 CON201 FROM J RELAY-2 C.B
TO CON931
43 1 CON101 FROM I RELAY-1 C.B
F DECK-2 C.B
CON702
SW12 (REB)
SW14 (CrO2·2)
SW15 (CST2)
SW11 (MT2)
SW13 (REA)
PIN702
SOL11 (FR2)
SOL12 (PLAY2)
SW17 (PLAY2)
SW16 (FR2)
IC11
M11 (DECK MOTOR)
E DECK-1 C.B
CON701
SW1 (CrO2·1)
SW2 (CST1)
PIN701
SOL1 (FR1)
SOL2 (PLAY1)
SW4 (PLAY1)
SW3 (FR1)
IC1
D905 D906 D902 D901 D907
S910 S909 S908 PLAY/DIR D904,S907 D903,S906 S905 REC/REC MUT
D TACT C.B
C LED C.B
S931 OPEN/CLOSE
D939 SYNC DUBB
DECK2
D932 DIR D933
IC931
Q931
FC931

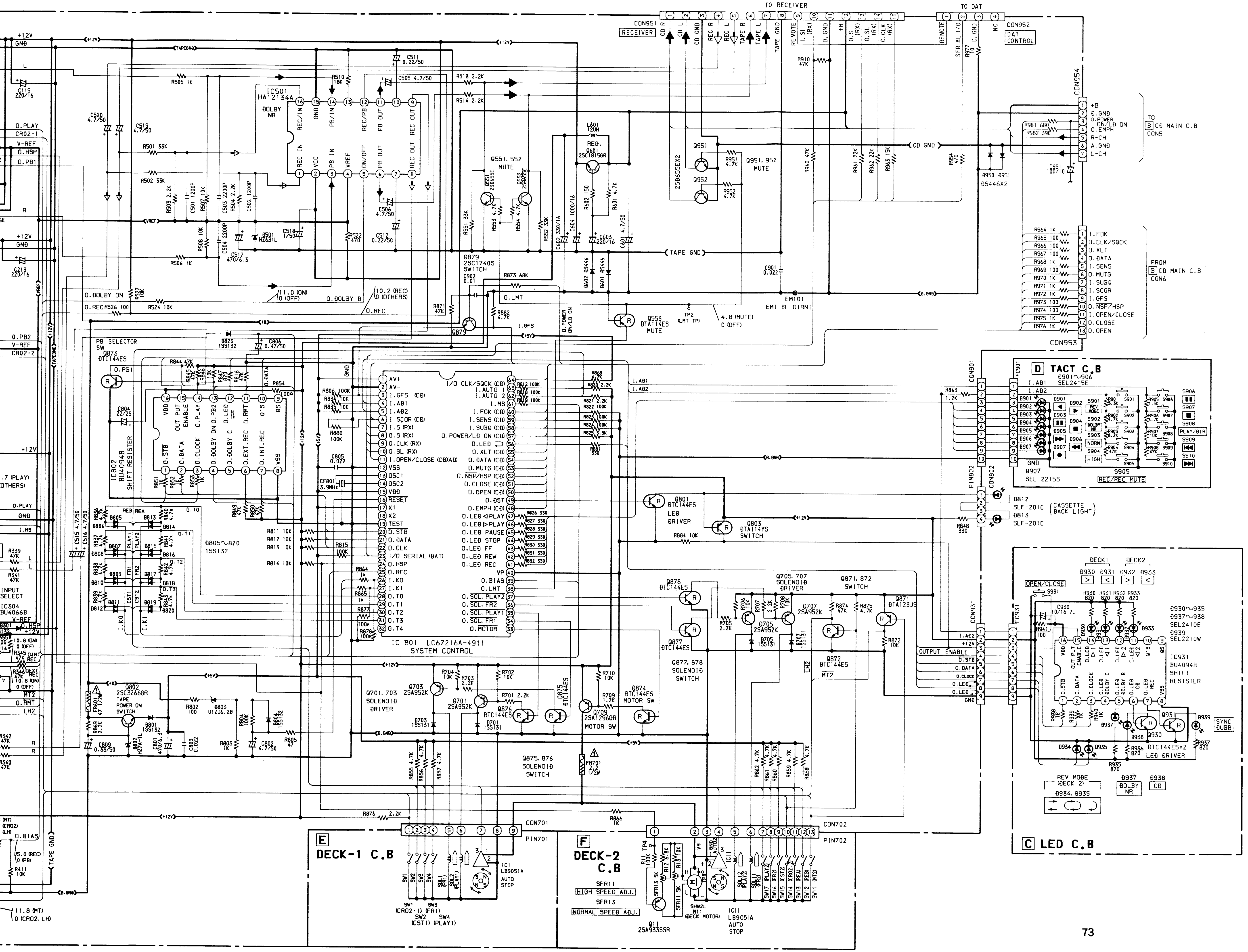

F DECK-2 C.B
E DECK-1 C.B
D TACT C.B
C LED C.B
J RELAY-2 C.B
I RELAY-1 C.B
(DECK 2) RPEH
(DECK 1) PH
CON951 RECEIVER TO RECEIVER
CON952 DAT CONTROL TO DAT
B CD MAIN C.B CON6
D812 (DECK 1 CASSETTE BACK LIGHT)
D813 (DECK 2 CASSETTE BACK LIGHT)
CON802 TO PIN802
TO CON901
M11 (DECK MOTOR)
TO A MAIN C.B PIN201
TO A MAIN C.B PIN101
FROM I RELAY-1 C.B
S931 OPEN/CLOSE
U, E, K, Z ONLY
HE, LH ONLY
REV MODE (DECK 2)
S910 ▶▶
S909 ◀◀
S908 PLAY/DIR
D904, S907 ■
D903, S906 ❚❚
S905 REC/REC MUTE
S904 HIGH
S903 NORM
SYNC DUBBING
S902 DOLBY NR
S901 REV MODE
D939 SYNC DUBB
D938 CD
D936 DOLBY C
D937 DOLBY B
D937 DOLBY NR

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

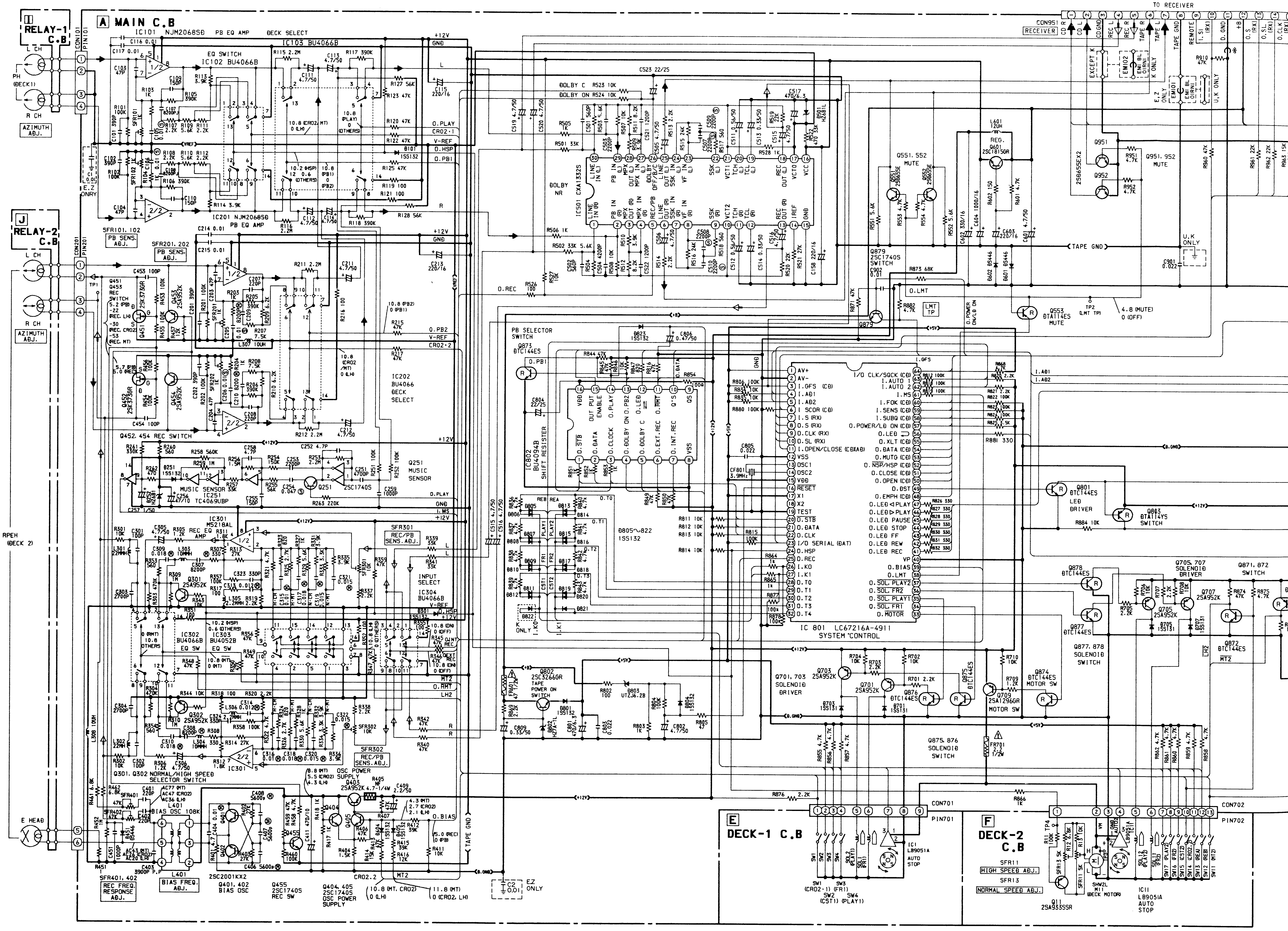
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 2 (FD – N55, DECK : HE, LH MODELS)

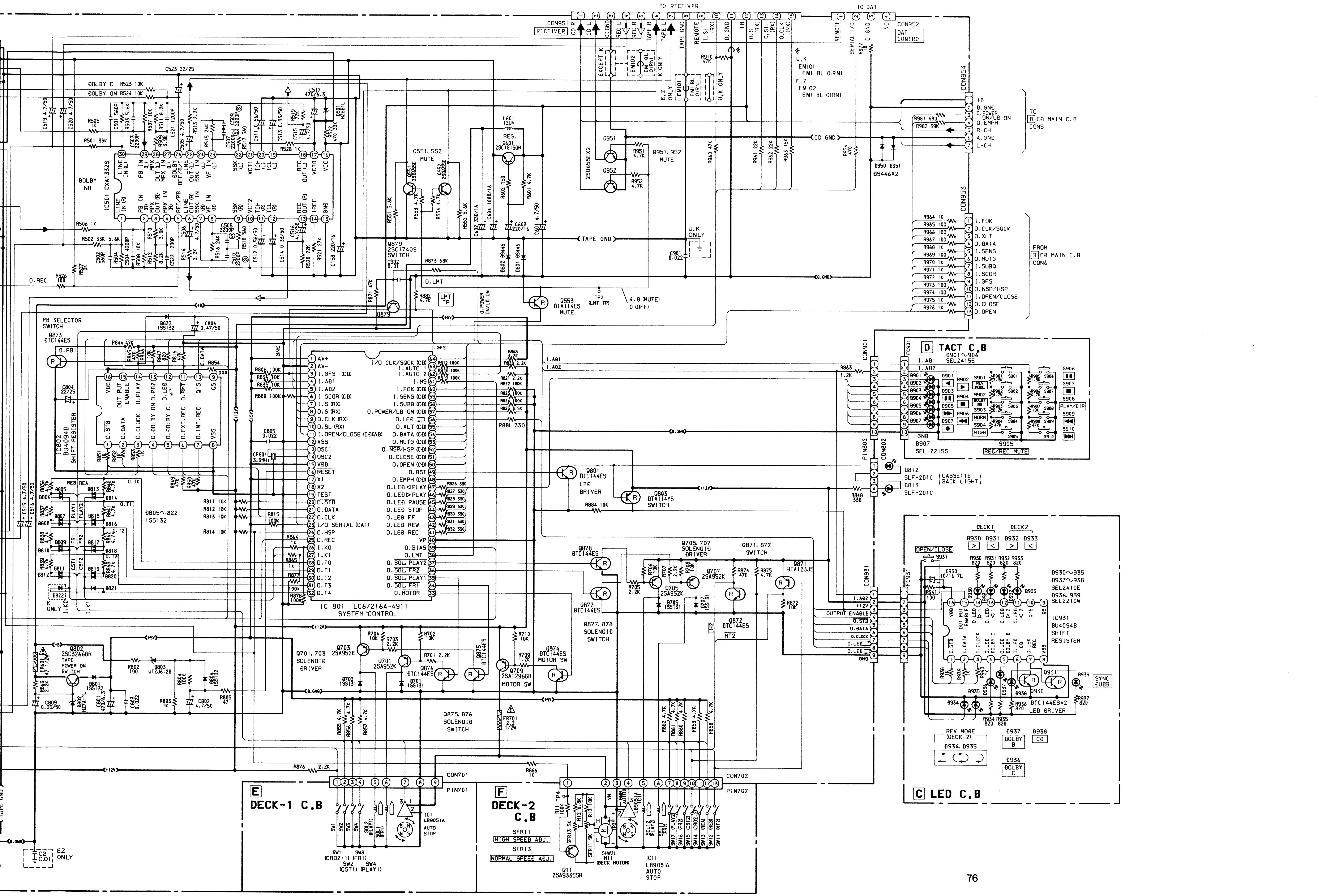

I RELAY-1 C.B
A MAIN C.B
J RELAY-2 C.B
E DECK-1 C.B
F DECK-2 C.B
TO RECEIVER
CON951 RECEIVER
PH (DECK1)
L CH
R CH
AZIMUTH ADJ.
RPEH (DECK 2)
E HEAD
IC101 NJM2068SD PB EQ AMP
IC103 BU4066B DECK SELECT
IC102 BU4066B EQ SWITCH
IC201 NJM2068SD PB EQ AMP
IC202 BU4066 DECK SELECT
IC501 HA12134A DOLBY NR
IC251 TC4069UBP MUSIC SENSOR
IC301 M5218AL REC EQ AMP
IC302 BU4066B EQ SW
IC303 BU4052B EQ SW
IC304 BU4066B INPUT SELECT
IC802 BU4094B SHIFT RESISTER
IC 801 LC67216A-4911 SYSTEM CONTROL
Q451, Q453 REC SWITCH
Q452, 454 REC SWITCH
Q301, Q302 NORMAL/HIGH SPEED SELECTOR SWITCH
Q401, 402 BIAS OSC
Q455 2SC1740S REC SW
Q404, 405 2SC1740S OSC POWER SUPPLY
Q403 2SA952K OSC POWER SUPPLY
Q551, 552 MUTE
Q553 DTA114ES MUTE
Q601 2SC1815GR REG.
Q951, 952 MUTE
Q879 2SC1740S SWITCH
Q873 DTC144ES PB SELECTOR SW
Q802 2SC3266GR TAPE POWER ON SWITCH
Q801 DTC144ES LED DRIVER
Q803 DTA114YS SWITCH
Q701, 703 SOLENOID DRIVER
Q875, 876 SOLENOID SWITCH
Q877, 878 SOLENOID SWITCH
Q705, 707 SOLENOID DRIVER
Q709 2SA1296GR MOTOR SW
Q874 DTC144ES MOTOR SW
SFR101, 102 PB SENS. ADJ.
SFR201, 202 PB SENS. ADJ.
SFR301 REC/PB SENS. ADJ.
SFR302 REC/PB SENS. ADJ.
SFR401, 402 REC FREQ. RESPONSE ADJ.
L401 BIAS FREQ. ADJ.
L401 BIAS OSC 108K
SFR11 HIGH SPEED ADJ.
SFR13 NORMAL SPEED ADJ.
IC1 LB9051A AUTO STOP
IC11 LB9051A AUTO STOP
M11 (DECK MOTOR)
Q11 2SA933SSR
SW1 (CRO2·1)
SW2 (CST1)
SW3 (FR1)
SW4 (PLAY1)
CON701 PIN701
EM101 BL DIRN1
TAPE GND
+12V
+5V
GND


TO RECEIVER
TO DAT
CON951
RECEIVER
CON952
DAT CONTROL
CD R
CD L
CD GND
REC R
REC L
TAPE R
TAPE L
TAPE GND
REMOTE
I.SI (RX)
D.GND
+B
O.S (RX)
O.SL (RX)
O.CLK (RX)
SERIAL I/O
NC
IC501 HA12134A
DOLBY NR
REC/IN
GND
PB/IN
REC/PB
PB OUT
REC OUT
REC IN
VCC
PB IN
VREF
ON/OFF
Q551, 552 MUTE
2SD655E
L601 12UH
REG. Q601 2SC1815GR
Q951, 952 MUTE
2SD655EX2
CON954
+B
D.GND
O.POWER ON/LD ON
O.EMPH
R-CH
A.GND
L-CH
TO B CD MAIN C.B CON5
D950 D951 DS446X2
CD GND
TAPE GND
D.GND
Q879 2SC1740S SWITCH
O.LMT
O.DOLBY ON
O.REC
O.DOLBY B
11.0 (ON) 0 (OFF)
10.2 (REC) 0 (OTHERS)
EM101 EMI BL 01RN1
TP2 LMT TP
4.8 (MUTE) 0 (OFF)
Q553 DTA114ES MUTE
I.FOK
O.CLK/SQCK
O.XLT
O.DATA
I.SENS
O.MUTG
I.SUBQ
I.SCOR
I.GFS
O.NSP/HSP
I.OPEN/CLOSE
O.CLOSE
O.OPEN
FROM B CD MAIN C.B CON6
CON953
PB SELECTOR SW Q873 DTC144ES
IC802 BU4094B SHIFT RESISTER
VDD
OUT PUT ENABLE
O.PLAY
O.PB2
O.LED
O.RMT
Q'S
QS
O.STB
O.DATA
O.CLOCK
O.DOLBY ON
O.DOLBY C
O.EXT.REC
O.INT.REC
VSS
D805~820 1SS132
IC801 LC67216A-4911 SYSTEM CONTROL
AV+
AV-
I.GFS (CD)
I.AD1
I.AD2
I SCOR (CD)
I.S (RX)
O.S (RX)
O.CLK (RX)
O.SL (RX)
I.OPEN/CLOSE (CD)(AD)
VSS
OSC1
OSC2
VDD
RESET
X1
X2
TEST
O.STB
O.DATA
O.CLK
I/O SERIAL (DAT)
O.HSP
O.REC
I.KO
I.K1
O.T0
O.T1
O.T2
O.T3
O.T4
I/O CLK/SQCK (CD)
I.AUTO 1
I.AUTO 2
I.MS
I.FOK (CD)
I.SENS (CD)
I.SUBQ (CD)
O.POWER/LD ON (CD)
O.LED
O.XLT (CD)
O.DATA (CD)
O.MUTG (CD)
O.NSP/HSP (CD)
O.CLOSE (CD)
O.OPEN (CD)
O.DST
O.EMPH (CD)
O.LED ◁ PLAY
O.LED ▷ PLAY
O.LED PAUSE
O.LED STOP
O.LED FF
O.LED REW
O.LED REC
O.BIAS
VP
O.LMT
O.SOL PLAY2
O.SOL FR2
O.SOL PLAY1
O.SOL FR1
O.MOTOR
CF801 3.9MHz
D TACT C.B
D901~906 SEL2415E
S905 REC/REC MUTE
S906
S907
S908 PLAY/DIR
S909
S910
NORM
HIGH
DOLBY NR
REV MODE
D907 SEL-2215S
CON901
PIN802
CON802
D812 SLF-201C
D813 SLF-201C
(CASSETTE BACK LIGHT)
Q801 DTC144ES LED DRIVER
Q803 DTA114YS SWITCH
Q878 DTC144ES
Q877 DTC144ES
Q877, 878 SOLENOID SWITCH
Q705, 707 SOLENOID DRIVER
Q705 2SA952K
Q707 2SA952K
Q871, 872 SWITCH
Q871 DTA123JS
Q872 DTC144ES
MT2
LH2
Q802 2SC3266GR TAPE POWER ON SWITCH
D802 HZ7A-1L
D803 UTZJ6.2B
D801 1SS132
Q701, 703 SOLENOID DRIVER
Q703 2SA952K
Q701 2SA952K
D703 1SS131
D701 1SS131
Q876 DTC144ES
Q875 DTC144ES
Q709 2SA1296GR MOTOR SW
Q874 DTC144ES MOTOR SW
Q875, 876 SOLENOID SWITCH
FR701 2.2 1/2W
C LED C.B
DECK1
DECK2
D930 D931 D932 D933
OPEN/CLOSE
S931
D930~935 D937~938 SEL2410E
D939 SEL2210W
IC931 BU4094B SHIFT RESISTER
SYNC DUBB
DTC144ES×2 LED DRIVER
REV MODE (DECK 2)
D934, D935
D937 DOLBY NR
D938 CD
OUTPUT ENABLE
O.STB
O.DATA
O.CLOCK
O.LED
GND
CON931
FC931
CON701
PIN701
CON702
PIN702
E DECK-1 C.B
SW1 (CRO2·1)
SW2 (CST1)
SW3 (FR1)
SW4 (PLAY1)
SOL1
SOL2
IC1 LB9051A AUTO STOP
F DECK-2 C.B
SFR11 HIGH SPEED ADJ.
SFR13 NORMAL SPEED ADJ.
Q11 2SA933SSR
SHW2L M11 (DECK MOTOR)
IC11 LB9051A AUTO STOP
+12V
+5V
+B
V-REF
O.PLAY
CR02·1
O.HSP
O.PB1
O.PB2
CR02·2
INPUT SELECT IC304 BU4066B
11.8 (MT) 0 (CRO2, LH)
5.0 (REC) 0 (PB)
10.8 (ON) 0 (OFF)
7 (PLAY) (OTHERS)
TAPE GND
O.BIAS

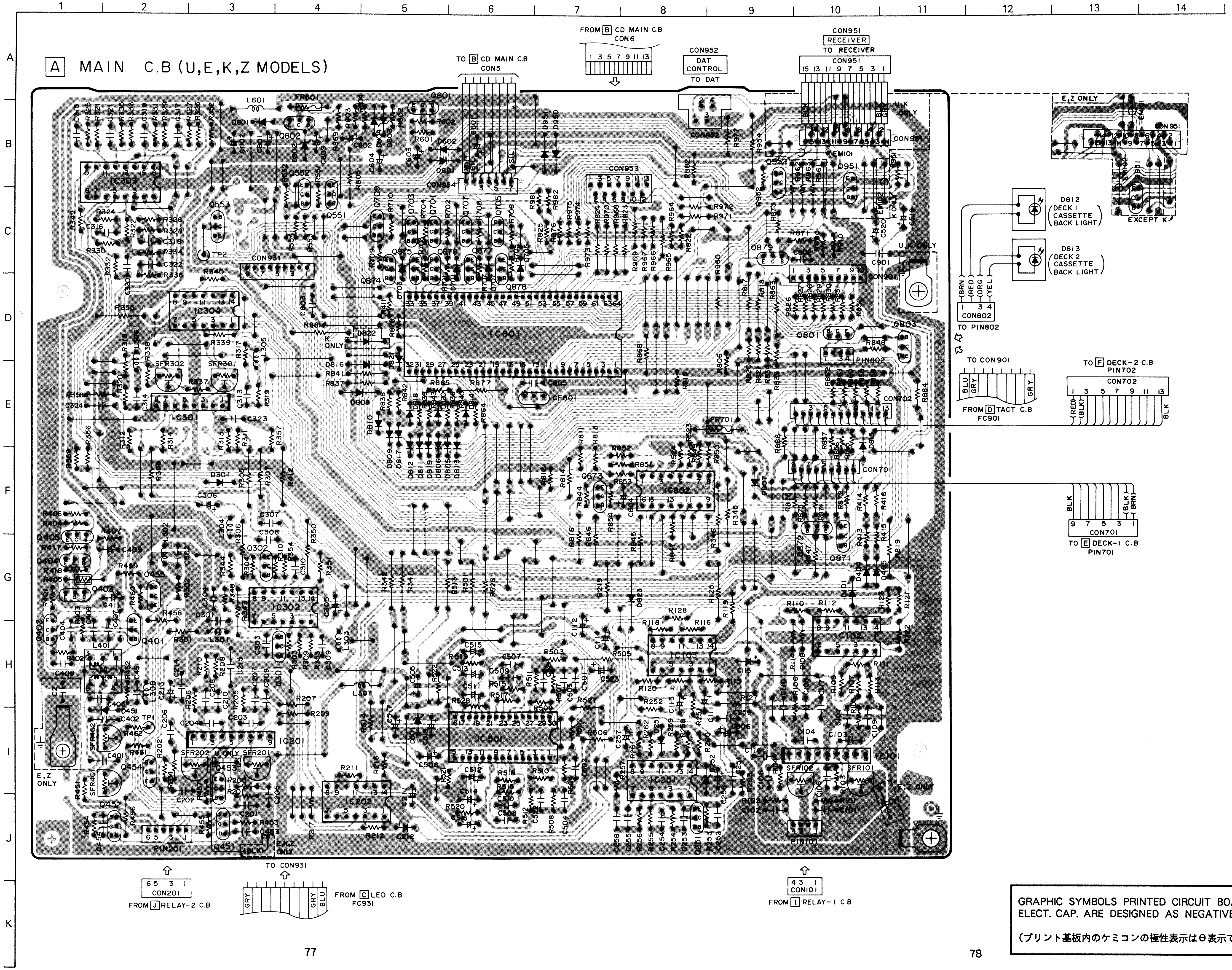
SCHEMATIC DIAGRAM – 3 (FD – N55, DECK : U, E, K, Z MODELS)



Ⓘ RELAY-1 C.B
Ⓐ MAIN C.B
Ⓙ RELAY-2 C.B
Ⓔ DECK-1 C.B
Ⓕ DECK-2 C.B
TO RECEIVER
CON951 RECEIVER
CON101 PIN101
CON201 PIN201
CON701 PIN701
CON702 PIN702
PH (DECK1)
RPEH (DECK 2)
E HEAD
L CH
R CH
AZIMUTH ADJ.
IC101 NJM2068SD PB EQ AMP
IC201 NJM2068SD PB EQ AMP
IC102 BU4066B EQ SWITCH
IC103 BU4066B DECK SELECT
IC202 BU4066 DECK SELECT
IC501 CXA1332S DOLBY NR
IC251 TC4069UBP MUSIC SENSOR
Q251 MUSIC SENSOR
IC301 M5218AL REC EQ AMP
IC302 BU4066B EQ SW
IC303 BU4052B EQ SW
IC304 BU4066B INPUT SELECT
IC802 BU4094B SHIFT RESISTER
IC 801 LC67216A-4911 SYSTEM CONTROL
SFR101, 102 PB SENS. ADJ.
SFR201, 202 PB SENS. ADJ.
SFR301 REC/PB SENS. ADJ.
SFR302 REC/PB SENS. ADJ.
SFR401, 402 REC FREQ. RESPONSE ADJ.
L401 BIAS FREQ. ADJ.
Q451, Q453 REC SWITCH
Q452, 454 REC SWITCH
Q301, Q302 NORMAL/HIGH SPEED SELECTOR SWITCH
Q401, 402 BIAS OSC 2SC2001KX2
Q455 2SC1740S REC SW
Q403 2SA952K OSC POWER SUPPLY
Q404, 405 2SC1740S OSC POWER SUPPLY
Q551, 552 MUTE
Q601 2SC1815GR REG.
L601 12UH
Q951, 952 MUTE
Q879 2SC1740S SWITCH
Q553 DTA114ES MUTE
Q873 DTC144ES PB SELECTOR SWITCH
Q802 2SC3266GR TAPE POWER ON SWITCH
Q801 DTC144ES LED DRIVER
Q803 DTA114YS SWITCH
Q878 DTC144ES
Q877 DTC144ES
Q877, 878 SOLENOID SWITCH
Q705, 707 SOLENOID DRIVER
Q871, 872 SWITCH
Q701, 703 SOLENOID DRIVER
Q875, 876 SOLENOID SWITCH
Q874 DTC144ES MOTOR SW
Q709 2SA1296GR MOTOR SW
D805~822 1SS132
IC1 LB9051A AUTO STOP
IC11 LB9051A AUTO STOP
M11 SHW2L (DECK MOTOR)
Q11 2SA933SSR
SFR11 HIGH SPEED ADJ.
SFR13 NORMAL SPEED ADJ.
TAPE GND
EZ ONLY
E.Z ONLY
U.K ONLY
EXCEPT K
K ONLY
LMT TP
4.8 (MUTE)
0 (OFF)


TO RECEIVER
TO DAT
CON951 RECEIVER
CON952 DAT CONTROL
CON954
TO B CD MAIN C.B CON5
CON953
FROM B CD MAIN C.B CON6
IC501 CXA1332S DOLBY NR
Q551, 552 MUTE
L601 12UH
REG. Q601 2SC1815GR
Q951, 952 MUTE
Q879 2SC1740S SWITCH
Q553 DTA114ES MUTE
TAPE GND
CD GND
U,K ONLY
4.8 (MUTE) 0 (OFF)
LMT TP
PB SELECTOR SWITCH
Q873 DTC144ES
IC802 BU4094B SHIFT RESISTER
D805~822 1SS132
IC 801 LC67216A-4911 SYSTEM CONTROL
CF801 3.9MHz
D TACT C.B
D901~906 SEL2415E
D907 SEL-2215S
S905 REC/REC MUTE
D812 SLF-201C
D813 SLF-201C
(CASSETTE BACK LIGHT)
Q801 DTC144ES LED DRIVER
Q803 DTA114YS SWITCH
Q705, 707 SOLENOID DRIVER
Q871, 872 SWITCH
Q877, 878 SOLENOID SWITCH
Q701, 703 SOLENOID DRIVER
Q874 DTC144ES MOTOR SW
Q709 2SA1296GR MOTOR SW
Q875, 876 SOLENOID SWITCH
Q802 2SC3266GR TAPE POWER ON SWITCH
D803 UTZJ6.2B
CON701
PIN701
CON702
PIN702
E DECK-1 C.B
IC1 LB9051A AUTO STOP
F DECK-2 C.B
SFR11 HIGH SPEED ADJ.
SFR13 NORMAL SPEED ADJ.
Q11 2SA933SSR
M11 DECK MOTOR
IC11 LB9051A AUTO STOP
C LED C.B
IC931 BU4094B SHIFT RESISTER
D930~935 D937~938 SEL2410E
D936, 939 SEL2210W
DECK1 DECK2
OPEN/CLOSE
SYNC DUBB
D930 DTC144ES×2 LED DRIVER
REV MODE (DECK 2)
D934, D935
D937 DOLBY B
D938 CD
D936 DOLBY C
EZ ONLY

WIRING – 3 (FD – N55, DECK : U, E, K, Z MODELS)


1
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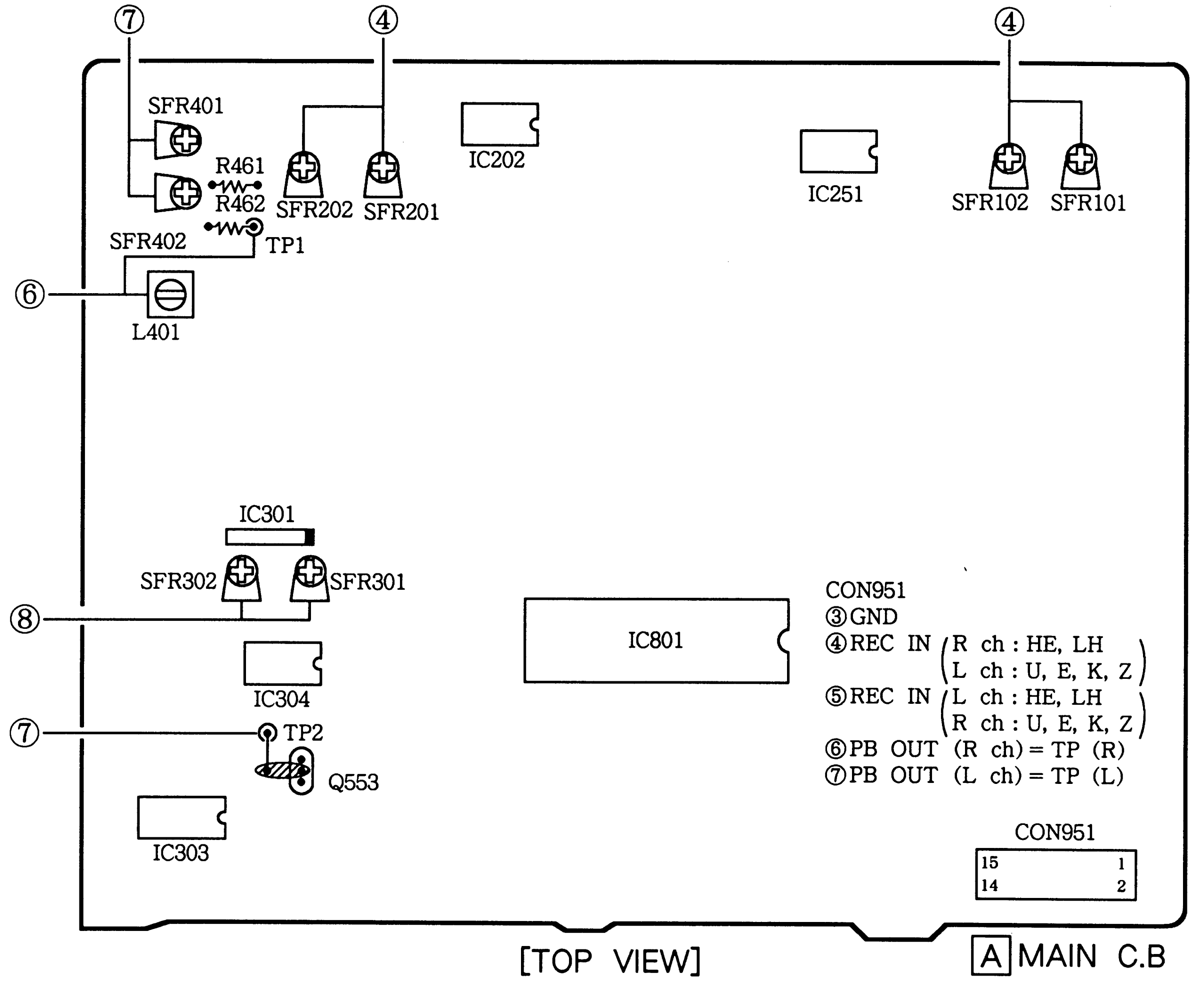
A
B
C
D
E
F
G
H
I
J
K
A MAIN C.B (U,E,K,Z MODELS)
TO B CD MAIN C.B
CON5
FROM B CD MAIN C.B
CON6
CON952
DAT CONTROL
TO DAT
CON951
RECEIVER
TO RECEIVER
E,Z ONLY
U,K ONLY
EXCEPT K
D812
DECK 1 CASSETTE BACK LIGHT
D813
DECK 2 CASSETTE BACK LIGHT
BRN
RED
ORG
YEL
CON802
TO PIN802
TO CON901
BLU
GRY
FROM D TACT C.B
FC901
TO F DECK-2 C.B
PIN702
CON702
RED
BLK
CON701
TO E DECK-1 C.B
PIN701
IC303
IC304
IC301
IC302
IC801
IC802
IC201
IC202
IC501
IC251
IC103
IC102
IC101
CON931
CON953
CON954
CON901
CF801
FR601
FR701
TP1
TP2
PIN201
PIN101
U ONLY
K ONLY
E,Z ONLY
E,K,Z ONLY
TO CON931
CON201
FROM J RELAY-2 C.B
GRY
BLU
FROM C LED C.B
FC931
CON101
FROM I RELAY-1 C.B

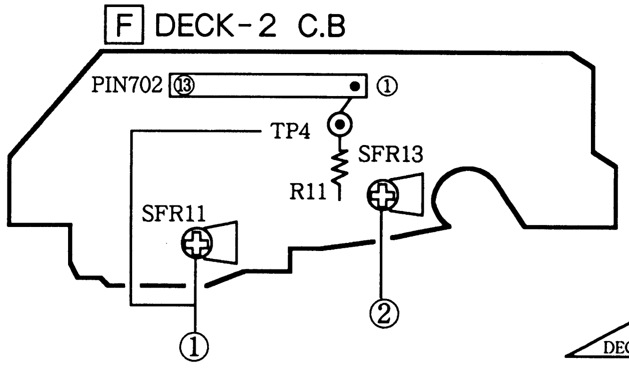
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

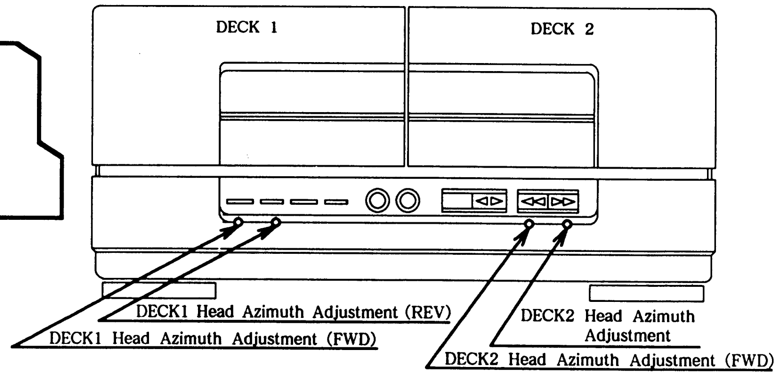
（プリント基板内のケミコンの極性表示は⊖表示です。）

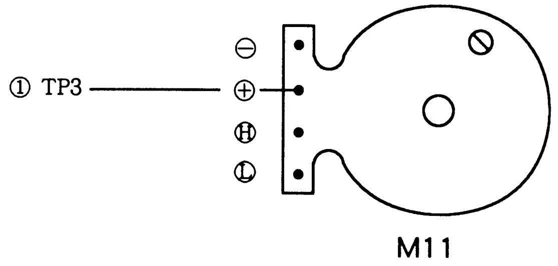
ADJUSTMENT (FD – N55)

< DECK SECTION >


⑦
④
④
SFR401
R461
R462
SFR202
SFR201
IC202
IC251
SFR102
SFR101
SFR402
TP1
⑥
L401
IC301
SFR302
SFR301
⑧
IC801
CON951
③GND
④REC IN (R ch : HE, LH / L ch : U, E, K, Z)
⑤REC IN (L ch : HE, LH / R ch : U, E, K, Z)
⑥PB OUT (R ch) = TP (R)
⑦PB OUT (L ch) = TP (L)
IC304
⑦
TP2
Q553
IC303
CON951
15
1
14
2
[TOP VIEW]
A MAIN C.B


F DECK-2 C.B
PIN702 ⑬
①
TP4
SFR13
R11
SFR11
②
①


DECK 1
DECK 2
DECK1 Head Azimuth Adjustment (REV)
DECK1 Head Azimuth Adjustment (FWD)
DECK2 Head Azimuth Adjustment
DECK2 Head Azimuth Adjustment (FWD)



1. High Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA-100 (TTA-111S)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR11 (DECK2)
   Method : Play back the test tape. Short TP3 and TP4 in the PLAY mode to establish the high speed mode, and adjust to 5990 ± 10Hz. After adjustment, remove the shorting wire between TP3 and TP4.

2. Normal Speed Adjustment (DECK1, DECK2)
   Adjust the normal speed after adjusting the high speed.
   Settings : • Test tape : TTA-100 (TTA-111S)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR13 (DECK2)
   Method : Play back the test tape, and adjust to 2995 ± 5Hz in FWD, and to ± 45Hz of the FWD value during the REV mode.

3. Head Azimuth Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA-310 (TTA-317E, SCC-1429)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape, and adjust so that the output becomes maximum. Adjust each mode of the PLAY mode and the REV PLAY mode.

4. PB Sensitivity Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA-200 (TTA-161, TTC-130)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR101 (DECK1 Lch)
   SFR102 (DECK1 Rch)
   SFR201 (DECK2 Lch)
   SFR202 (DECK2 Rch)
   Method : Play back the test tape, and adjust so that the outputs are 264mV ± 0.3dB (HE, LH), 280mV ± 0.3dB (E, K, Z, U).

5. PB Frequency Response Check (DECK1, DECK2)
   Settings : • Test tape : TTA-310 (TTA-317E, SSC-1429)
   • Test point : PB OUT pin (CON951)
   Method : Play back the 315Hz and 10kHz signals of the test tapes, and check the 10kHz signal is 0dB ± 2.5dB with reference to the 315Hz signal.

6. Bias Frequency Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : TP1
   Method : Set DECK2 to the REC mode, and adjust the output of the test point TP1 to 108 ± 2kHz.

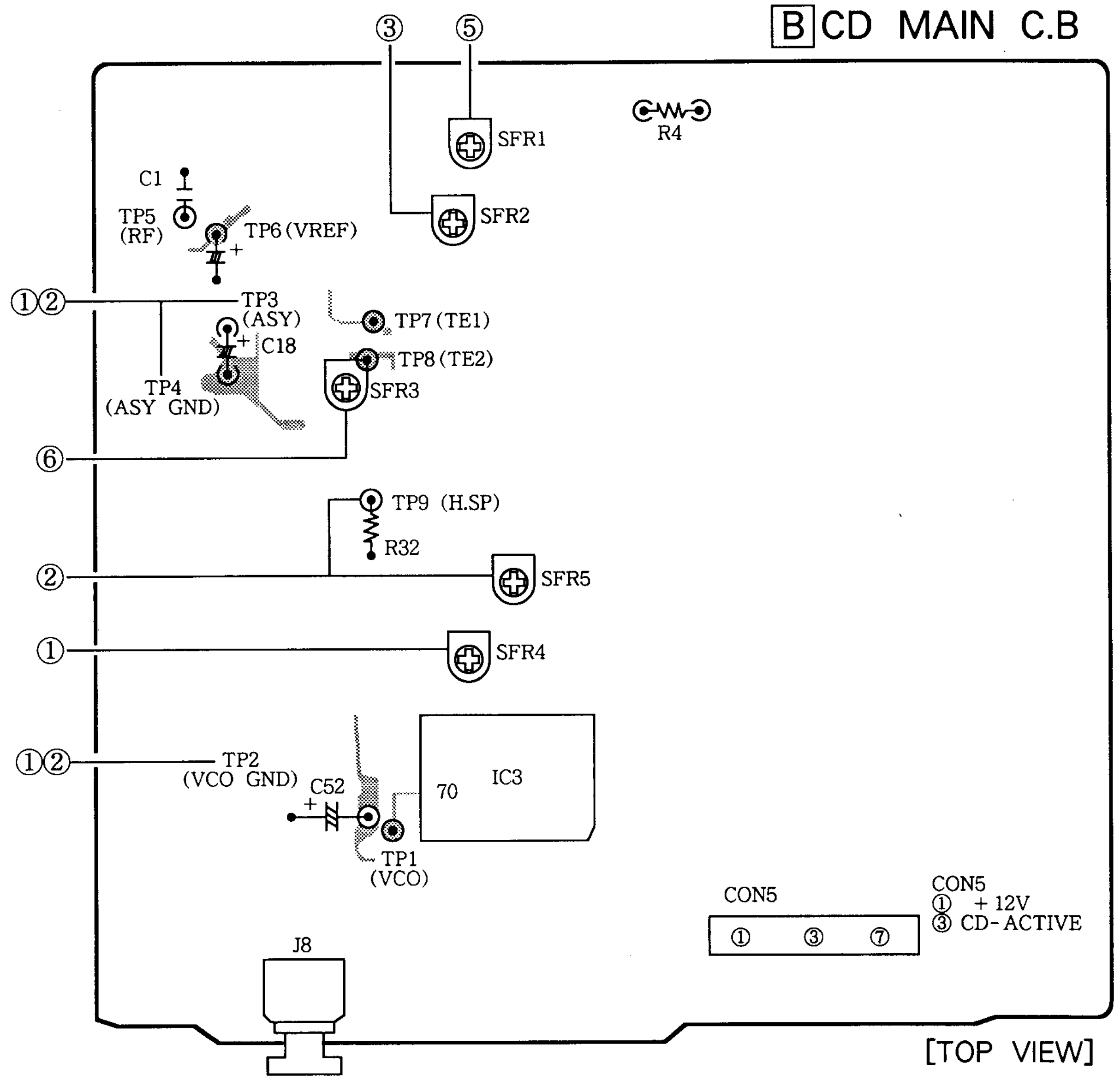
7. REC/PB Frequency Response Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : PB OUT pin (CON951)
   REC IN pin (CON951)
   • Adjustment location : SFR401 (Lch)
   SFR402 (Rch)
   Method : Connect TP2 (LMT TP) to the ground on the chassis and input the 1kHz signal, then adjust the voltage at the PB OUT pin to 20mV with ATT. Record and play back 1kHz and 10kHz. Adjust so that 10kHz output is within 0dB ± 0.5dB against 1kHz output.
   After this adjustment, disconnect the shorting wire to the ground.

8. REC/PB Sensitivity Adjustment (DECK2)
   Settings : • Test tape : TTA-601 (TTA-600, TTA-119K)
   • Test point : PB OUT pin (CON951)
   • Adjustment location : SFR301 (Lch)
   SFR302 (Rch)
   Method : Connect TP2 (LMT TP) to the ground on the chassis and input the 1kHz signal, then adjust the voltage at the PB OUT pin to 20mV with ATT.
   After this adjustment, disconnect the wire to the ground.

PRACTICAL SERVICE FIGURE (FD – N55)

PB output level :	265 ± 30mV TTA-200 (TTA-161, TTC-130)
REC/PB output level :	190mV ± 1dB (PB OUT, 1kHz) (HE, LH) 188mV ± 1dB (PB OUT, 1kHz) (U, E, K, Z)
Distortion (REC/PB) :	Less than 2.0% (NORM., CrO2, METAL)
Erasing ratio :	More than 60dB
Cross talk :	More than 60dB
Channel separation :	More than 30dB
Noise (REC/PB) :	Less than 2.2mV (DOLBY OFF, NORM.) Less than 1.1mV (DOLBY B ON, CrO2) Less than 1.0mV (U, E, K, Z) (DOLBY B ON, METAL)
Noise (PB) :	Less than 2.0mV (DOLBY OFF, NORM.) Less than 1.0mV (DOLBY B ON, CrO2) Less than 0.9mV (U, E, K, Z) (DOLBY C ON, METAL)
Recording bias frequency :	108kHz
Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.RMS) (DECK1/2)
Take-up torque :	25~60g-cm (DECK1/2)
F.F torque :	70~150g-cm (DECK1/2)
REW torque :	70~150g-cm (DECK1/2)
Back tension :	2~6g-cm (DECK1/2)
Test tape :	NORMAL TTA-601 (TTA-600, TTA-119K) CrO_2 TTA-610 (TTA-119H) METAL TTA-630 (TTA-119MP)

< CD SECTION >



Note : Connect a probe (10 : 1) of the frequency counter or the oscilloscope to a test point and adjust as follows.

① Normal Speed VCO Frequency Adjustment

1. Connect CON5① PIN to CON5 ③ PIN with wire.
2. Connect the frequency counter to test points TP1 (VCO) and TP2 (VCO GND).
3. Short between TP3 (ASY) and TP4 (ASY GND).
4. Adjust SFR4 (VCO) so that the frequency counter to 4.40 ± 0.01MHz.
5. After this adjustment, disconnect the short lead wire between test points TP3 (ASY) and TP4 (ASY GND).

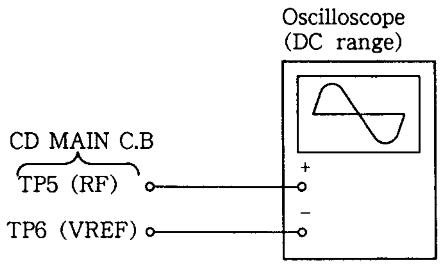
② High Speed VCO Frequency adjustment
(HE, LH, E, Z, ONLY)

Adjust the high speed VCO frequency after adjusting the normal speed VCO frequency.

1. Connect CON5 ① PIN to CON5 ③ PIN with wire.
2. Connect the frequency counter to test points TP1 (VCO) and TP2 (VCO GND).
3. Short between TP9 (H•SP) and TP4 (GND) to establish the high speed mode.
4. Short between TP3 (ASY) and TP4 (ASY GND).
5. Adjust SFR5 so that the frequency counter to 9.60 ± 0.01MHz .
6. After this adjustment, disconnect the short lead wire between test points TP3 (ASY), TP4 (ASY GND) and TP9 (H • SP).

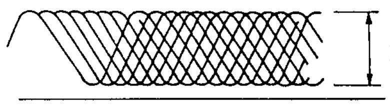
③ Focus Bias Adjustment

Make the focus bias adjustment when replacing or repairing the optical block.



1. Connect an oscilloscope to test points TP5 (RF) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Adjust SFR2 (F.B) so that the waveform of the oscilloscope is the maximum.

RF Signal Waveform



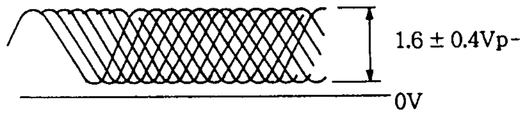
VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

④ RF Waveform Check

Make the RF waveform check when replacing or repairing the optical block.

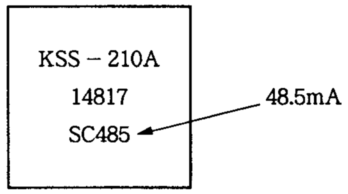
1. Connect an oscilloscope to test points TP5 (RF) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Check the waveform is such as the following figure.

RF Signal Waveform



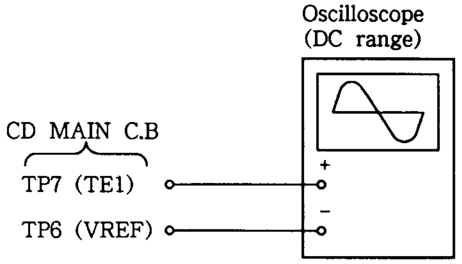
VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

Note : The current of the laser signal can be checked with the voltages on both sides of R4 (10 Ω). The difference for the specified value shown on the label must be within ± 6.0mA.

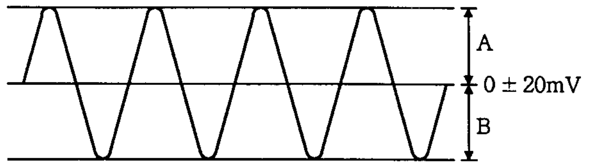


$$\text{Laser current Iop} = \frac{\text{Voltage across R4}}{10\,\Omega}$$

⑤ Tracking Balance Adjustment



1. Connect an oscilloscope to test points TP7 (TE1) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and set to the ▷ PLAY mode.
3. Adjust SFR1 (TB) so that the traverse waveform of the oscilloscope is vertically symmetrical as shown in the following figure.



VOLT/DIV : 20mV
TIME/DIV : 2mS

⑥ Tracking Gain Adjustment

A servo analyzer is necessary to perform this adjustment precisely. However, this gain has a margin, so even if the gain is slightly off, it hardly causes a problem. Therefore, do not perform this adjustment. The focus/tracking gain determines the pick-up follow-up characteristic relative to mechanical noise and mechanical shock when the 2-axis device operates. However, as these gains are reciprocated, the adjustment is performed so that both gains are satisfied.

- When gain is raised, the noise increases as the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily. When the gain adjustment is not satisfied, symptoms shown below appear.

Gain / Symptoms	(Focus)	Tracking
● The time until the music starts becomes longer for STOP→▶ PLAY or automatic selection (⏮and⏭ buttons pressed). (Normally it takes about 2 seconds.)	Low	Low or High
● Music does not start and disc continues to rotate for STOP →▶ PLAY or automatic selection ((⏮and⏭ buttons pressed).	——	Low
● Disc stops to rotates shortly after STOP →▶ PLAY.	Low or High	——
● Sound interrupted during PLAY, or time counter display stops.	——	Low
● More noises during the 2-axis device.	High	High

The following is a simple adjustment method.

——Simple adjustment——

Note : As the adjustment cannot be conducted accurately, keep in mind the volume control position before adjusting and compare the volume control positions after the simple adjustment. When the difference between the positions are little, return the volume control to its original position.

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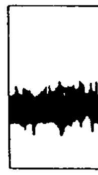

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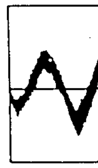

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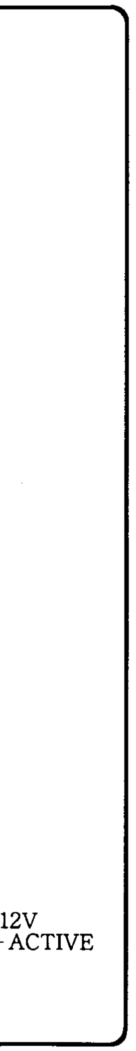
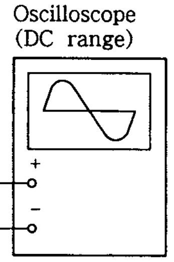


VIEW]

the short lead wire
TP4 (ASY GND) and

when replacing or

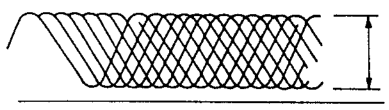


points TP5 (RF) and

DS-18) and play the

e waveform of the

RF Signal Waveform

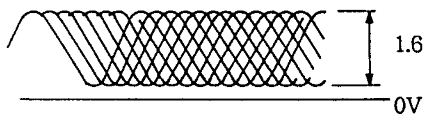


VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

④ RF Waveform Check
Make the RF waveform check when replacing or repairing the optical block.

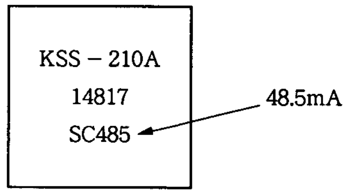
1. Connect an oscilloscope to test points TP5 (RF) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Check the waveform is such as the following figure.

RF Signal Waveform



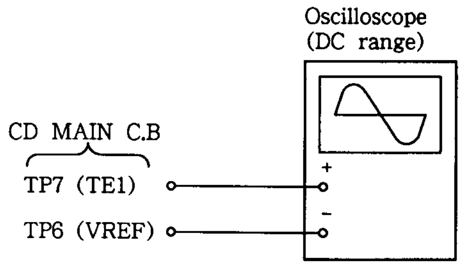
VOLT/DIV : 200mV
TIME/DIV : 0.5 μS

Note : The current of the laser signal can be checked with the voltages on both sides of R4 (10 Ω). The difference for the specified value shown on the label must be within ± 6.0mA.

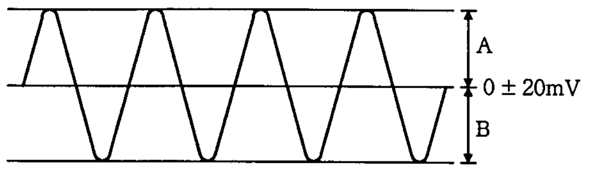


$$\text{Laser current Iop} = \frac{\text{Voltage across R4}}{10\,\Omega}$$

⑤ Tracking Balance Adjustment



1. Connect an oscilloscope to test points TP7 (TE1) and TP6 (VREF).
2. Insert the test disc TCD-782 (YEDS-18) and set to the ▷ PLAY mode.
3. Adjust SFR1 (TB) so that the traverse waveform of the oscilloscope is vertically symmetrical as shown in the following figure.



VOLT/DIV : 20mV
TIME/DIV : 2mS

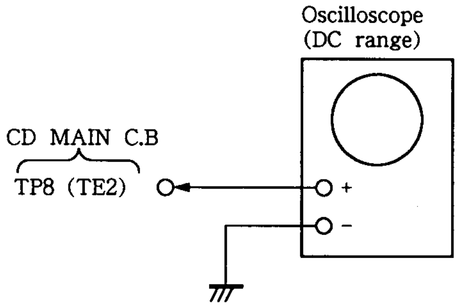
⑥ Tracking Gain Adjustment
A servo analyzer is necessary to perform this adjustment precisely. However, this gain has a margin, so even if the gain is slightly off, it hardly causes a problem. Therefore, do not perform this adjustment. The focus/tracking gain determines the pick-up follow-up characteristic relative to mechanical noise and mechanical shock when the 2-axis device operates. However, as these gains are reciprocated, the adjustment is performed so that both gains are satisfied.

- When gain is raised, the noise increases as the 2-axis device operates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
When the gain adjustment is not satisfied, symptoms shown below appear.

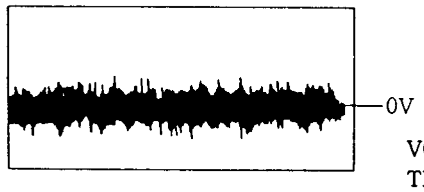
Gain / Symptoms	(Focus)	Tracking
● The time until the music starts becomes longer for STOP→▶ PLAY or automatic selection (⏮and⏭ buttons pressed). (Normally it takes about 2 seconds.)	Low	Low or High
● Music does not start and disc continues to rotate for STOP →▶ PLAY or automatic selection ((⏮and⏭ buttons pressed).	——	Low
● Disc stops to rotates shortly after STOP →▶ PLAY.	Low or High	——
● Sound interrupted during PLAY, or time counter display stops.	——	Low
● More noises during the 2-axis device.	High	High

The following is a simple adjustment method.
——Simple adjustment——
Note : As the adjustment cannot be conducted accurately, keep in mind the volume control position before adjusting and compare the volume control positions after the simple adjustment. When the difference between the positions are little, return the volume control to its original position.

Procedure :



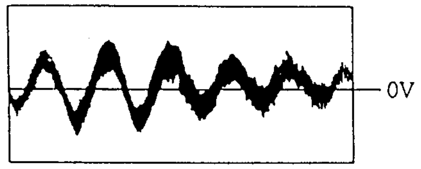
1. Keep the set horizontally (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device).
2. Insert the test disc TCD-782 (YEDS-18) and play the second program.
3. Connect an oscilloscope to test points TP8 (TE2), TP4 (GND).
4. Adjust SFR3 (TE) so that the waveform of the oscilloscope appears as shown in the following figure (tracking gain adjustment).



VOLT/DIV : 50mV
TIME/DIV : 2mS

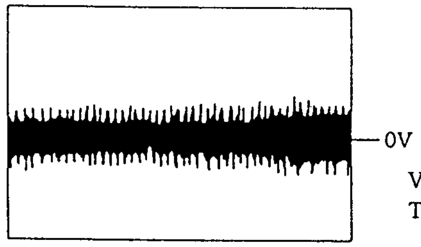
- Incorrect example (The fundamental wave appears as compared with the waveform adjusted.)

Low tracking gain



VOLT/DIV : 50mV
TIME/DIV : 2mS

High tracking gain
[The fundamental wave is higher in comparison with the case that the gain is low.]



VOLT/DIV : 50mV
TIME/DIV : 2mS

IC DESCRIPTION (FD – N55)

IC,CXD1167Q

Pin No.	Pin Name	I/O	Description
1	FSW	O	Time constant switching output for the spindle motor output filter.
2	MON	O	ON/OFF control output for the spindle motor.
3	MDP	O	Spindle motor drive output, the coarse control in the CLV-S mode and the SPEED control in the CLV-P mode.
4	MDS	O	Spindle motor drive output, speed control in the CLV-S mode.
5	EFM	I	EFM signal input from the RF amplifier.
6	ASY	O	Output to control the slice level of the EFM signal.
7	LOCK	O	When the GFS signal is sampled by WFCK/16 and it is "H", "H" is output. When "L" is serially output eight times, "L" is output.
8	VCOO	O	VCO output. f = 8.6436MHz when it is locked to the EFM signal.
9	VCOI	I	VCO input.
10	TEST	—	Connected to GND. (0V)
11	PDO	O	Phase comparison output between the EFM and VCO/2 signals.
12	VSS	—	GND. (0V)
13	CLK	I	Serial data transmission clock input from the CPU. Data is latched at the starting edge of the clock.
14	XLT	I	Latch input from CPU. Latches 8-bit shift register data (serial data from CPU) to each register.
15	DATA	I	Input serial data from CPU.
16	XRST	I	System reset input. It is reset when "L".
17	CNIN	I	Tracking pulse input.
18	SENS	O	Internal state is output corresponding to the address.
19	MUTG	I	Muting input. When the ATTM of the internal register is "L", the MUTG is "L" and is normal. When "H", there is no sound signal.
20	CRCF	O	Result of the CRC check of sub code Q is output.
21	EXCK	I	Clock input for sub code serial output. (Connected to GND.)
22	SBSO	O	Sub code serial output. (Not used.)
23	SUBQ	O	Sub code Q output.
24	SCOR	O	Sub code sync S0 + S1 output.
25	SQCK	I/O	Sub code Q read clock.
26	SQEX	I	SQCK selection input. (Connected to +5V.)
27	DOTX	O	Digital audio interface output. (WFCK is output when OFF.)
28	GFS	O	Display output of the lock state of the frame sync. "H" when it is locked.
29	TEST	I/O	External RAM data terminal, DATA 8 (MSB). (Connected to GND.)
30	TEST	I/O	External RAM data terminal, DATA 7. (Connected to GND.)
31	TEST	I/O	External RAM data terminal, DATA 6. (Connected to GND.)
32	TEST	I/O	External RAM data terminal, DATA 5. (Connected to GND.)
33	VDD	—	Power supply. (+5V)
34	TEST	I/O	External RAM data terminal, DATA 4. (Connected to GND.)
35	TEST	I/O	External RAM data terminal, DATA 3. (Connected to GND.)

Pin No.	Pin Name	I/O	Description
36	TEST	I/O	External RAM data terminal, DATA 2. (Connected to GND.)
37	TEST	I/O	External RAM data terminal, DATA 1 (LSB). (Connected to GND.)
38	TEST	O	External RAM address output, ADDR 01 (LSB). (Connected to GND.)
39	TEST	O	External RAM address output, ADDR 02. (Connected to GND.)
40	TEST	O	External RAM address output, ADDR 03. (Connected to GND.)
41	TEST	O	External RAM address output, ADDR 04. (Connected to GND.)
42	TEST	O	External RAM address output, ADDR 05. (Connected to GND.)
43	TEST	O	External RAM address output, ADDR 06. (Connected to GND.)
44	TEST	O	External RAM address output, ADDR 07. (Connected to GND.)
45	TEST	O	External RAM address output, ADDR 08. (Connected to GND.)
46	TEST	O	External RAM address output, ADDR 09. (Connected to GND.)
47	TEST	O	External RAM address output, ADDR 10. (Connected to GND.)
48	TEST	O	External RAM address output, ADDR 11 (MSB). (Connected to GND.)
49	TEST	O	Write Enable signal output to the external RAM, (Active when "L"). (Connected to GND.)
50	TEST	O	Chip Select signal output to the external RAM, (Active when "L"). (Connected to GND.)
51	C4M	O	1/2 frequency division output to the X'tal. f = 4.2336MHz (Not used.)
52	VSS	—	GND. (0V)
53	XTAI	I	X'tal oscillation circuit input. f = 8.4672MHz
54	XTAO	O	X'tal oscillation circuit output. f = 8.4672MHz (Not used.)
55	MD1	I	Mode selection input 1. It is used when "H" Mode selection input 2. It is used when "L" Mode selection input 3. It is used when "L" } Clock frequency 8.4672MHz, digital out OFF, digital filter ON. It is used in the following modes.
56	MD2		
57	MD3		
58	SLOB	I	Code switching input of the audio output. 2's complement output when "L", offset binary output when "H". (Connected to GND.)
59	PSSL	I	Mode switching input of the audio data output. Serial output when "L", parallel output when "H". (Connected to GND.)
60	APTR	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
61	APTL	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
62	C1F1	O	DA01 (LSB of the parallel audio data) output when PSSL = "H". CIFI output when PSSL = "L". (Not used.)
63	C1F2	O	DA02 output when PSSL = "H". C1F2 output when PSSL = "L". (Not used.)
64	C2F1	O	DA03 output when PSSL = "H". C2F1 output when PSSL = "L". (Not used.)
65	C2F2	O	DA04 output when PSSL = "H". C2F2 output when PSSL = "L". (Not used.)
66	C2FL	O	DA05 output when PSSL = "H". C2FL output when PSSL = "L". (Not used.)
67	C2P0	O	DA06 output when PSSL = "H". C2P0 output when PSSL = "L". (Not used.)
68	RFCK	O	DA07 output when PSSL = "H". RFCK output when PSSL = "L". (Not used.)
69	WFCK	O	DA08 output when PSSL = "H". WFCK output when PSSL = "L". (Not used.)
70	PLCK	O	DA09 output when PSSL = "H". PLCK output when PSSL = "L". (Note 1) (Not used.)

Pin no.	Pi
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Note 1: PLCK: VCO/2

Note 2: C210: Bit cl

Note 3: DATA: Serial

IC,CXA1082BQ

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Pin No.	Pin Name	I/O	Description
36	TEST	I/O	External RAM data terminal, DATA 2. (Connected to GND.)
37	TEST	I/O	External RAM data terminal, DATA 1 (LSB). (Connected to GND.)
38	TEST	O	External RAM address output, ADDR 01 (LSB). (Connected to GND.)
39	TEST	O	External RAM address output, ADDR 02. (Connected to GND.)
40	TEST	O	External RAM address output, ADDR 03. (Connected to GND.)
41	TEST	O	External RAM address output, ADDR 04. (Connected to GND.)
42	TEST	O	External RAM address output, ADDR 05. (Connected to GND.)
43	TEST	O	External RAM address output, ADDR 06. (Connected to GND.)
44	TEST	O	External RAM address output, ADDR 07. (Connected to GND.)
45	TEST	O	External RAM address output, ADDR 08. (Connected to GND.)
46	TEST	O	External RAM address output, ADDR 09. (Connected to GND.)
47	TEST	O	External RAM address output, ADDR 10. (Connected to GND.)
48	TEST	O	External RAM address output, ADDR 11 (MSB). (Connected to GND.)
49	TEST	O	Write Enable signal output to the external RAM, (Active when "L"). (Connected to GND.)
50	TEST	O	Chip Select signal output to the external RAM, (Active when "L"). (Connected to GND.)
51	C4M	O	1/2 frequency division output to the X'tal. f = 4.2336MHz (Not used.)
52	VSS	—	GND. (0V)
53	XTAI	I	X'tal oscillation circuit input. f = 8.4672MHz
54	XTAO	O	X'tal oscillation circuit output. f = 8.4672MHz (Not used.)
55	MD1	I	Mode selection input 1. It is used when "H" Mode selection input 2. It is used when "L" Mode selection input 3. It is used when "L" Clock frequency 8.4672MHz, digital out OFF, digital filter ON. It is used in the following modes.
56	MD2		
57	MD3		
58	SLOB	I	Code switching input of the audio output. 2's complement output when "L", offset binary output when "H". (Connected to GND.)
59	PSSL	I	Mode switching input of the audio data output. Serial output when "L", parallel output when "H". (Connected to GND.)
60	APTR	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
61	APTL	O	Aperture compensation control output. 88.2kHz when filter ON, 44.1kHz when filter OFF. (Not used.)
62	C1F1	O	DA01 (LSB of the parallel audio data) output when PSSL = "H". CIFI output when PSSL = "L". (Not used.)
63	C1F2	O	DA02 output when PSSL = "H". C1F2 output when PSSL = "L". (Not used.)
64	C2F1	O	DA03 output when PSSL = "H". C2F1 output when PSSL = "L". (Not used.)
65	C2F2	O	DA04 output when PSSL = "H". C2F2 output when PSSL = "L". (Not used.)
66	C2FL	O	DA05 output when PSSL = "H". C2FL output when PSSL = "L". (Not used.)
67	C2P0	O	DA06 output when PSSL = "H". C2P0 output when PSSL = "L". (Not used.)
68	RFCK	O	DA07 output when PSSL = "H". RFCK output when PSSL = "L". (Not used.)
69	WFCK	O	DA08 output when PSSL = "H". WFCK output when PSSL = "L". (Not used.)
70	PLCK	O	DA09 output when PSSL = "H". PLCK output when PSSL = "L". (Note 1) (Not used.)
71	VGFS	O	DA10 output when PSSL = "H". VGFS output when PSSL = "L". (Not used.)
72	GTOP	O	DA11 output when PSSL = "H". GTOP output when PSSL = "L". (Not used.)
73	VDD	—	Power supply. (+5V)
74	RA0V	O	DA12 output when PSSL = "H". RA0V output when PSSL = "L". (Not used.)
75	C4LR	O	DA13 output when PSSL = "H". C4LR output when PSSL = "L". (Not used.)
76	$\overline{C210}$	O	DA14 output when PSSL = "H". C210 output when PSSL = "L".
77	C210	O	DA15 output when PSSL = "H". C210 output when PSSL = "L". (Note 2) (Not used.)
78	DATA	O	DA16 (MSB of the parallel audio data) output when PSSL = "H". DATA output when PSSL = "L". (Note 3)
79	WDCK	O	Strobe signal output. 176.4kHz when filter ON, 88.2kHz when filter OFF. (Not used.)
80	LRCK	O	Strobe signal output. 88.2kHz when filter ON, 44.1kHz when filter OFF.

Note 1: PLCK: VCO/2 output. f = 4.3218MHz when the EFM signal is locked.
Note 2: C210: Bit clock output. f = 2.1168MHz
Note 3: DATA: Serial data output of the audio signal.

IC,CXA1082BQ

Pin No.	Pin Name	I/O	Description
1	VC	—	Connected to VREF.
2	FGD	O	When the high-frequency gain of the focus servo is lowered, a capacitor is connected between this terminal and pin 3.
3	FS3	I	The high-frequency gain of the focus servo is switched with ON/OFF of FS3.
4	FLB	O	Time constant external terminal for raising the low-frequency range of the focus servo.
5	FEO	O	Focus error signal output terminal.
6	FE ⊖	I	Focus amplifier inversion input terminal.
7	SRCH	O	Time constant exterminator terminal to generate the focus search waveform.
8	TG0	O	Time constant external terminal for switching the tracking high-frequency gain.
9	TG2	O	Time constant external terminal for switching the tracking high-frequency gain.
10	AVCC	—	Power supply terminal. (+5V)
11	TAO	O	Tracking error signal output terminal.
12	TA ⊖	I	Tracking amplifier inversion input terminal.
13	SL ⊕	I	Noninversion input terminal of the sled amplifier.
14	SLO	O	Output terminal of the sled amplifier.
15	SL ⊖	I	Inversion input terminal of the sled amplifier.
16	SSTOP	I	ON/OFF detection signal terminal of the limit switch detects the inner-most circumference. It is fixed to "L" for this set.
17	FSET	I	Setting terminal of the phase compensation peak of the focus tracking and CLV LPF (fo).
18	SENS	O	IC internal state output corresponding to data address. (It is changed depending on the address of the internal register.)
19	AVEE	—	Power supply terminal. (Connected to GND.)
20	C. OUT	O	Count signal output of the tracking in the high-speed access mode.

Pin No.	Pin Name	I/O	Description
21	DIRCT	O	It is used when the one-track jump. It is normally set to "H". A direction of the tracking jump pulse is inverted when "L". When setting to "H", it is set to the normal tracking mode. It is set in a time to "L" at the start and fall of TZC. (Not used.)
22	XRST	O	All the internal register are cleared when "L".
23	DATA	I	Serial data transmission from the CPU. Input from LSB.
24	XLT	O	Data of the internal serial shift register is transmitted to each latch memory which the address is decoded when "L".
25	CLK	O	Data transmission clock. Data is read at the falling edge.
26	DGND	—	GND terminal.
27	BW	I	Time constant external terminal of the loop filter.
28	PD1	I	Input terminal of data PDO output from phase comparator CXD1167Q.
29	ISET	I	The current which set the height of the focus search, tracking jump and sled kick is supplied.
30	VCOF	I	The free-running frequency of VCO corresponds to the resist value between pins30 and 31.
31	3. 5V	O	
32	C8. 64	O	8.64MHz VCO output terminal.
33	LOCK	I	Connected to the LOCK terminal of CXD1167Q.
34	MDP	I	Terminal to connect the MDP terminal of CXD1167Q.
35	MON	I	Terminal to connect the MON terminal of CXD1167Q.
36	FSW	I	LPF time constant external terminal of the CLV servo difference signal.
37	DVCC	—	Power supply terminal. (+5V)
38	SPDL ⊖	I	Inversion terminal of the spindle drive amplifier.
39	SPDLO	O	Spindle motor drive terminal.
40	WDCK	I	Word clock signal input terminal.
41	FOK	I	Focus OK signal input terminal.
42	MIRR	I	Mirror signal input terminal.
43	DVEE	—	GND terminal.
44	DFCT	I	Focus servo and tracking servo are OFF while "H" is being inputting.
45	TE	I	Tracking error signal input terminal.
46	TZC	I	Input terminal of the tracking zero-cross comparator.
47	ATSC	I	ATSC detection window comparator input terminal. Data input terminal to indicate that a mechanical shock is occurred.
48	FE	I	Focus error signal input terminal.

IC,CXA1081M

Pin No.	Pin Name	I/O	Description
1	RFI	I	RF summing amplifier output is input combined with C.
2	RFO	O	RF summing amplifier output, EYE pattern test point.
3	RF ⊖	I	RF summing amplifier inversion input. Feedback resistor is connected between pins ② and ③.
4	P/N	I	Input is switched with the polarity of the laser diode. (Not used.)
5	LD	O	Control output of the laser diode output.
6	PD	I	Photo detector for detecting the laser diode output is connected.
7	PD1	I	RF I-V amplifier (1) inversion input. It is connected to PIN diode A + C and the power supply is input.
8	PD2	I	RF I-V amplifier (2) inversion input. It is connected to PIN diode B + D and the power supply is input.
9	VC	I	Reference voltage input of the internal IC. It is connected to pin ⑭ in the single power mode. It is connected to GND in the ±2 power mode.
10	F	I	F I-V amplifier inversion input. It is connected to PIN diode F and the power supply is input.
11	E	I	E I-V amplifier inversion input. It is connected to PIN diode E and the power supply is input.
12	EO	O	E I-V amplifier output. It is connected to the feedback resistor.
13	EI	I	E I-V amplifier gain adjustment terminal.
14	VR	O	Intermediate potential is output. It is connected to pin ⑨ in the single power mode. It is OPEN in the ±2 power mode. (Not used.)
15	CC2	O	Defect bottom hold (1) output. Capacitor is connected between pins ⑮ and ⑯.
16	CC1	I	Defect bottom hold (1) output is connected to the capacitor and input.
17	VEE	—	GND in the single power mode. Negative power in the ±2 power mode.
18	FE BIAS	I	Positive phase bias input of the focus error amplifier.
19	FE	O	Focus error amplifier output.
20	TE	O	Tracking error amplifier output.
21	DEFECT	O	Defect detection output. Mirror defect detection signal is output.
22	MIRR	O	Mirror comparator output.
23	CP	O	Mirror hold capacitor connection terminal.
24	CB	O	Defect bottom hold (2) capacitor connection terminal.
25	D. GND	—	Digital GND.
26	ASY	I	Auto symmetry control input.
27	EFM	O	EFM output comparator output.
28	FOK	O	Focus OK output.
29	$\overline{\text{LD ON}}$	I	Laser diode ON/OFF control input.
30	VCC	—	Positive power supply. (+ 5V)

IC,SM58

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occurred.

IC,CXA1081M

Pin No.	Pin Name	I/O	Description
1	RFI	I	RF summing amplifier output is input combined with C.
2	RFO	O	RF summing amplifier output, EYE pattern test point.
3	RF ⊖	I	RF summing amplifier inversion input. Feedback resistor is connected between pins ② and ③.
4	P/N	I	Input is switched with the polarity of the laser diode. (Not used.)
5	LD	O	Control output of the laser diode output.
6	PD	I	Photo detector for detecting the laser diode output is connected.
7	PD1	I	RF I-V amplifier (1) inversion input. It is connected to PIN diode A + C and the power supply is input.
8	PD2	I	RF I-V amplifier (2) inversion input. It is connected to PIN diode B + D and the power supply is input.
9	VC	I	Reference voltage input of the internal IC. It is connected to pin ⑭ in the single power mode. It is connected to GND in the ±2 power mode.
10	F	I	F I-V amplifier inversion input. It is connected to PIN diode F and the power supply is input.
11	E	I	E I-V amplifier inversion input. It is connected to PIN diode E and the power supply is input.
12	EO	O	E I-V amplifier output. It is connected to the feedback resistor.
13	EI	I	E I-V amplifier gain adjustment terminal.
14	VR	O	Intermediate potential is output. It is connected to pin ⑨ in the single power mode. It is OPEN in the ±2 power mode. (Not used.)
15	CC2	O	Defect bottom hold (1) output. Capacitor is connected between pins ⑮ and ⑯.
16	CC1	I	Defect bottom hold (1) output is connected to the capacitor and input.
17	VEE	—	GND in the single power mode. Negative power in the ±2 power mode.
18	FE BIAS	I	Positive phase bias input of the focus error amplifier.
19	FE	O	Focus error amplifier output.
20	TE	O	Tracking error amplifier output.
21	DEFECT	O	Defect detection output. Mirror defect detection signal is output.
22	MIRR	O	Mirror comparator output.
23	CP	O	Mirror hold capacitor connection terminal.
24	CB	O	Defect bottom hold (2) capacitor connection terminal.
25	D. GND	—	Digital GND.
26	ASY	I	Auto symmetry control input.
27	EFM	O	EFM output comparator output.
28	FOK	O	Focus OK output.
29	$\overline{\text{LD ON}}$	I	Laser diode ON/OFF control input.
30	VCC	—	Positive power supply. (+ 5V)

IC,SM5870BS

Pin No.	Pin Name	I/O	Description
1	XTO	O	Oscillator output terminal. (Not used.)
2	XVSS	—	X'tal system GND. (0V)
3	CK SLN	I	Normal/high speed PB selection mode. (DS=L: normal PB mode.) (DS=H: high speed PB mode.)
4	CKO	O	Oscillator output clock. (DS=L: 384fs same as XTI input frequency.) (DS=H: 192fs same as XTI input frequency.) (Not used.)
5	TSTN	I	Test terminal. (Not used.)
6	MODN	I	Mode terminal.
7	ATTN	I	Soft mute control terminal. (ATTN=H: soft mute release execution.) (ATTN=L: soft muting execution.) (Not used.)
8	LRCI	I	Sample rate (fs) clock of input data: H=L ch, L=R ch.
9	BCKI	I	Bit clock of input data.
10	DIN	I	Input data.
11	DFS1	I	De-emphasis control 1 terminal.
12	DFS2	I	De-emphasis control 2. (Connected to GND.)
13	MUTEO	O	Infinity/zero detection output. (Not used.)
14	RSTN	I	System reset: H=normal execution. L=system reset.
15	DVSS	—	Digital GND terminal. (0V)
16	DVDD	—	Digital VDD terminal. (5V)
17	AVDD1	—	Analog VDD 1 terminal. (5V)
18	LO	O	L ch PWM. (+)
19	AVSS1	—	Analog GND 1 terminal. (0V)
20	LON	O	L ch PWM output terminal. (-)
21	AVDD2	—	Analog VDD 2 terminal. (5V)
22	AVDD3	—	Analog VDD 3 terminal. (5V)
23	RON	O	R ch PWM output. (-)
24	AVSS2	—	Analog GND 2 terminal. (0V)
25	RO	O	R ch PWM output. (+)
26	AVDD4	—	Analog VDD 4 terminal. (5V)
27	XVDD	—	X'tal system VDD terminal. (5V)
28	XTI	I	Oscillator Input terminal. (DS=L: when 384fs.) (DS=H: when 192fs.)

	Selection	DFS1	
		L	H
DFS2	L	De-emphasis ON 44.1 kHz	De-emphasis OFF
	H	De-emphasis ON 48.0 kHz	De-emphasis ON 32.0 kHz

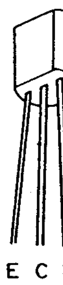
IC,LC67216A – 4911

Pin No.	Pin Name	I/O	Description
1	AV+	—	A/D converter reference voltage input. (+5V)
2	AV−	—	A/D converter reference voltage input. (GND)
3	I. GFS (CD)	I	Display lock condition of the frame sync.. "L" at the error output.
4	I. AD1	I	A/D input of PAUSE, STOP, PLAY, REW and FF keys.
5	I. AD2	I	A/D input of OPEN/CLOSE, REV MODE, DOLBY NR, NORM, HIGH and REC keys.
6	I. SCOR (CD)	I	Serial data of the sub code sync S0+S1.
7	I. S (RX)	I	Serial data input from RX-N55.
8	O. S (RX)	O	Serial data output to RX-N55.
9	O. CLK (RX)	O	
10	O. SL (RX)	O	
11	I. OPEN/ CLOSE (CD×AD)	I	Tray position detection switch. AD input.
12	VSS	—	Power supply terminal. (GND)
13	OSC1	I	Main clock oscillation terminal. (input)
14	OSC2	O	Main clock oscillation terminal. (output)
15	VDD	—	Power supply terminal. (+5V)
16	$\overline{\text{RESET}}$	I	Reset input terminal.
17	X1	I	Sub clock oscillation terminal. (input) (Connected to +5V.)
18	X2	O	Sub clock oscillation terminal. (output) (Not used.)
19	TEST	I	Test terminal. (Connect to GND.)
20	$\overline{\text{O. STB}}$	O	$\overline{\text{STB}}$ line to the shift register.
21	O. DATA	O	DATA line to the shift register.
22	O. CLK	O	CLK line to the shift register.
23	I/O SERIAL (DAT)	I/O	I/O serial line between DAT and FD-N55.
24	O. HSP	O	Motor speed control terminal of DECK and PB EQ control terminal. "H" when high speed dubbing and CD high speed recording.
25	O. REC	O	Output terminal for switching between encoding and decoding DOLBY. "H" when recording, "L" when dubbing.
26	I. K0	I	
27	I. K1	I	
28	O. T0	O	KEY SCAN output for K0 and K1.
29	O. T1	O	
30	O. T2	O	
31	O. T3	O	
32	O. T4	O	

Functions				
KEY DATA Input				
0.T0 is"L"	0.T1 is"L"	0.T2 is"L"	0.T3 is"L"	0.T4 is"L"
REB SW input	PLAY1 SW input	FR1 SW input	CST1 SW input	No CD HI SPEED
REA SW input	PLAY2 SW input	FR2 SW input	CST2 SW input	No DOLBY B/C

Pin No.	Pin Name	I/O	Description
33	O. $\overline{\text{MOTOR}}$	O	Output terminal for the main motor control of DECK1 and DECK2. "H" when both DECKs are stopped.
34	O. $\overline{\text{SOL, FR1}}$	O	Output terminal for FF/RWD solenoid drive of DECK1. Active "H".
35	O. $\overline{\text{SOL, PLAY1}}$	O	Output terminal for PLAY solenoid drive of DECK1. Active "H".
36	O. $\overline{\text{SOL, FR2}}$	O	Output terminal for FF/RWD solenoid drive of DECK2. Active "H".
37	O. $\overline{\text{SOL, PLAY2}}$	O	Output terminal for PLAY solenoid drive of DECK2. Active "H".
38	O. LMT	O	Output terminal for muting of REC/PB monitor output signal. "H" when muting.
39	O. BIAS	O	Output terminal for bias oscillation of DECK2. "H" when dubbing or recording.
40	VP	—	Connect to GND.
41	O. LED REC	O	"H" when the LED of REC lights ON.
42	O. LED REW	O	"H" when the LED of REW lights ON.
43	O. LED FF	O	"H" when the LED of FF lights ON.
44	O. LED STOP	O	"H" when the LED of STOP lights ON.
45	O. LED PAUSE	O	"H" when the LED of PAUSE lights ON.
46	O. LED▷PLAY	O	"H" when the LED of ▷ PLAY lights ON.
47	O. LED◁PLAY	O	"H" when the LED of ◁ PLAY lights ON.
48	O. EMPH (CD)	O	Switch of the emphasis when normal execution. "H" when switch is ON.
49	O. DST	O	"H" when LED of the cassette compartment lights ON.
50	O. OPEN (CD)	O	Output for tray opening. "H" when opening action.
51	O. CLOSE (CD)	O	Output for tray closing. "H" when closing action.
52	O. $\overline{\text{NSP}}$/HSP (CD)	O	Output for high speed action. "H" when high speed action.
53	O. MUTG (CD)	O	Muting output to DSP. Active "H".
54	O. DATA (CD)	O	Serial data output to DSP.
55	O. XLT (CD)	O	Lach output to serial data. Active "H".
56	O. LED⊐	O	"H" when LED of ⊐ lights ON.
57	O. POWER/LD ON (CD)	O	CD ON/OFF output. "H" when ON. ON/OFF output of the laser diode. "H" when ON.
58	I. SUBQ (CD)	I	Serial data of sub code Q.
59	I. SENS (CD)	I	Data of internal conditions corresponding to the address.
60	I. FOK (CD)	I	Indicates the conditions of the focus. "H" is input when the focus is adjusted right.
61	I. MS	I	Input terminal of MS signal. Active "H".
62	I. AUTO2	I	Input terminal of the reel pulse of DECK2.
63	I. AUTO1	I	Input terminal of the reel pulse of DECK1.
64	I/O CLK/SQCK (CD)	I/O	Serial data transmission clock.

TRANSISTOR I



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IC,BU4094B

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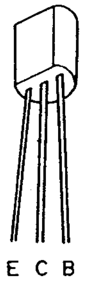
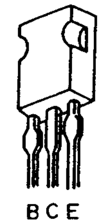
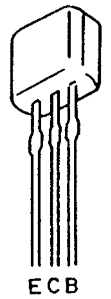
SPEED
B/C

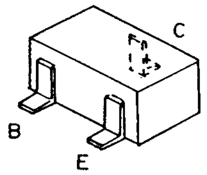
Pin No.	Pin Name	I/O	Description
33	O. $\overline{\text{MOTOR}}$	O	Output terminal for the main motor control of DECK1 and DECK2. "H" when both DECKs are stopped.
34	O. $\overline{\text{SOL, FR1}}$	O	Output terminal for FF/RWD solenoid drive of DECK1. Active "H".
35	O. $\overline{\text{SOL, PLAY1}}$	O	Output terminal for PLAY solenoid drive of DECK1. Active "H".
36	O. $\overline{\text{SOL, FR2}}$	O	Output terminal for FF/RWD solenoid drive of DECK2. Active "H".
37	O. $\overline{\text{SOL, PLAY2}}$	O	Output terminal for PLAY solenoid drive of DECK2. Active "H".
38	O. LMT	O	Output terminal for muting of REC/PB monitor output signal. "H" when muting.
39	O. BIAS	O	Output terminal for bias oscillation of DECK2. "H" when dubbing or recording.
40	VP	—	Connect to GND.
41	O. LED REC	O	"H" when the LED of REC lights ON.
42	O. LED REW	O	"H" when the LED of REW lights ON.
43	O. LED FF	O	"H" when the LED of FF lights ON.
44	O. LED STOP	O	"H" when the LED of STOP lights ON.
45	O. LED PAUSE	O	"H" when the LED of PAUSE lights ON.
46	O. LED▷PLAY	O	"H" when the LED of ▷ PLAY lights ON.
47	O. LED◁PLAY	O	"H" when the LED of ◁ PLAY lights ON.
48	O. EMPH (CD)	O	Switch of the emphasis when normal execution. "H" when switch is ON.
49	O. DST	O	"H" when LED of the cassette compartment lights ON.
50	O. OPEN (CD)	O	Output for tray opening. "H" when opening action.
51	O. CLOSE (CD)	O	Output for tray closing. "H" when closing action.
52	O. $\overline{\text{NSP}}$/HSP (CD)	O	Output for high speed action. "H" when high speed action.
53	O. MUTG (CD)	O	Muting output to DSP. Active "H".
54	O. DATA (CD)	O	Serial data output to DSP.
55	O. XLT (CD)	O	Lach output to serial data. Active "H".
56	O. LED⊃	O	"H" when LED of ⊃ lights ON.
57	O. POWER/LD ON (CD)	O	CD ON/OFF output. "H" when ON. ON/OFF output of the laser diode. "H" when ON.
58	I. SUBQ (CD)	I	Serial data of sub code Q.
59	I. SENS (CD)	I	Data of internal conditions corresponding to the address.
60	I. FOK (CD)	I	Indicates the conditions of the focus. "H" is input when the focus is adjusted right.
61	I. MS	I	Input terminal of MS signal. Active "H".
62	I. AUTO2	I	Input terminal of the reel pulse of DECK2.
63	I. AUTO1	I	Input terminal of the reel pulse of DECK1.
64	I/O CLK/SQCK (CD)	I/O	Serial data transmission clock.

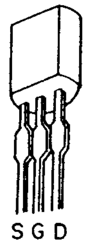
TRANSISTOR ILLUSTRATION (FD – N55)







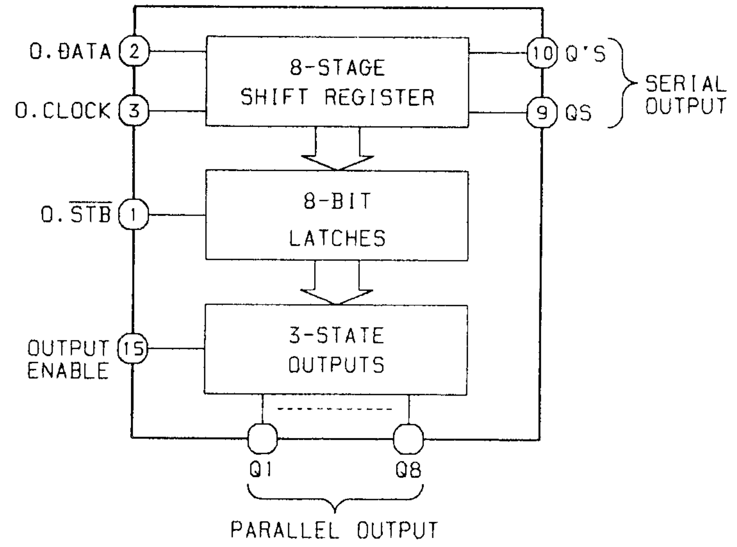




2SA933	2SB1354	2SC1740	2SA1162	2SK373
2SA952		DTC114ES	2SC2712	
2SA1296		DTC114YS	DTA114TK	
2SA1318		DTA123	DTC114	
2SC1815		DTA144ES	DTC124	
2SC2001			DTC143	
2SC3266			DTC144EK	
2SD655				

IC BLOCK DIAGRAM (FD – N55)

IC,BU4094B



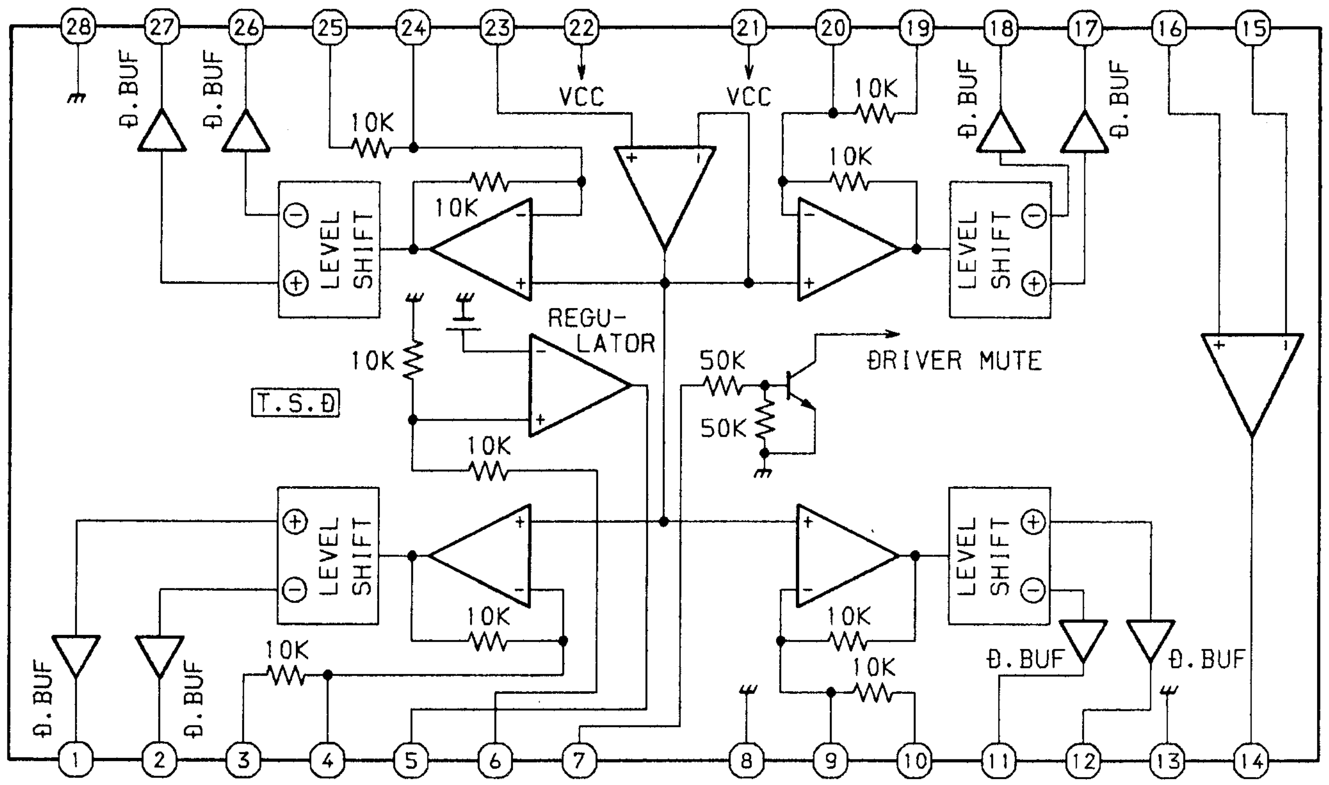
Q1:O.DOLBY ON
Q2:O.DOLBY C
Q3:O.EXT.REC
Q4:O.INT.REC
Q5:O.PLAY
Q6:O.PB2
Q7:O.LED
Q8:O.$\overline{\text{RMT}}$

TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↑	L	x	x	Z	Z	Q7	NO CHG.
↓	L	x	x	Z	Z	NO CHG.	QS
↑	H	L	x	NO CHG.	NO CHG.	Q7	NO CHG.
↑	H	H	L	L	Qn-1	Q7	NO CHG.
↑	H	H	H	H	Qn-1	Q7	NO CHG.
↓	H	x	x	NO CHG.	NO CHG.	NO CHG.	QS

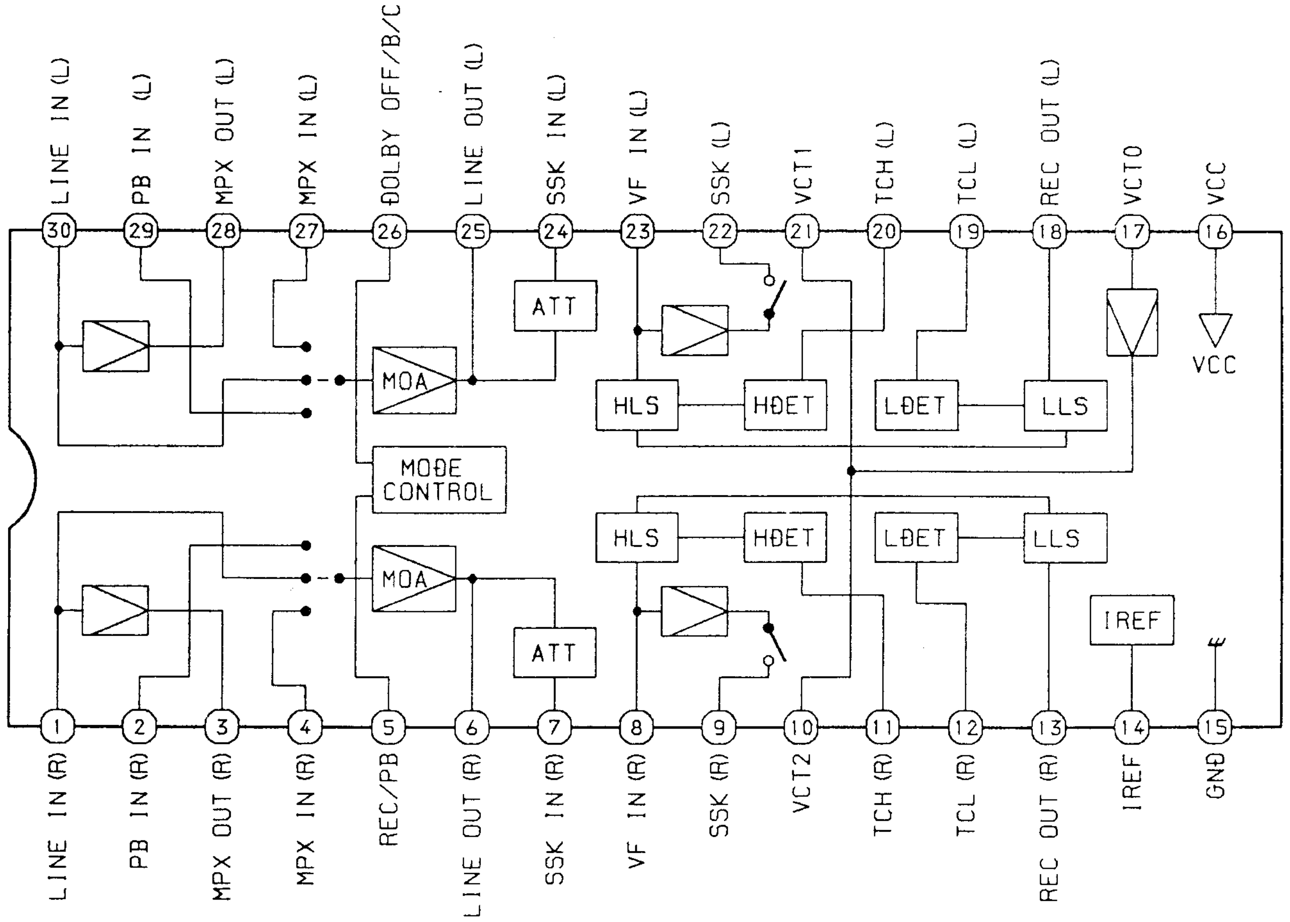
Z = HIGH IMPEDANCE
x = DON'T CARE

IC,BA6296FP

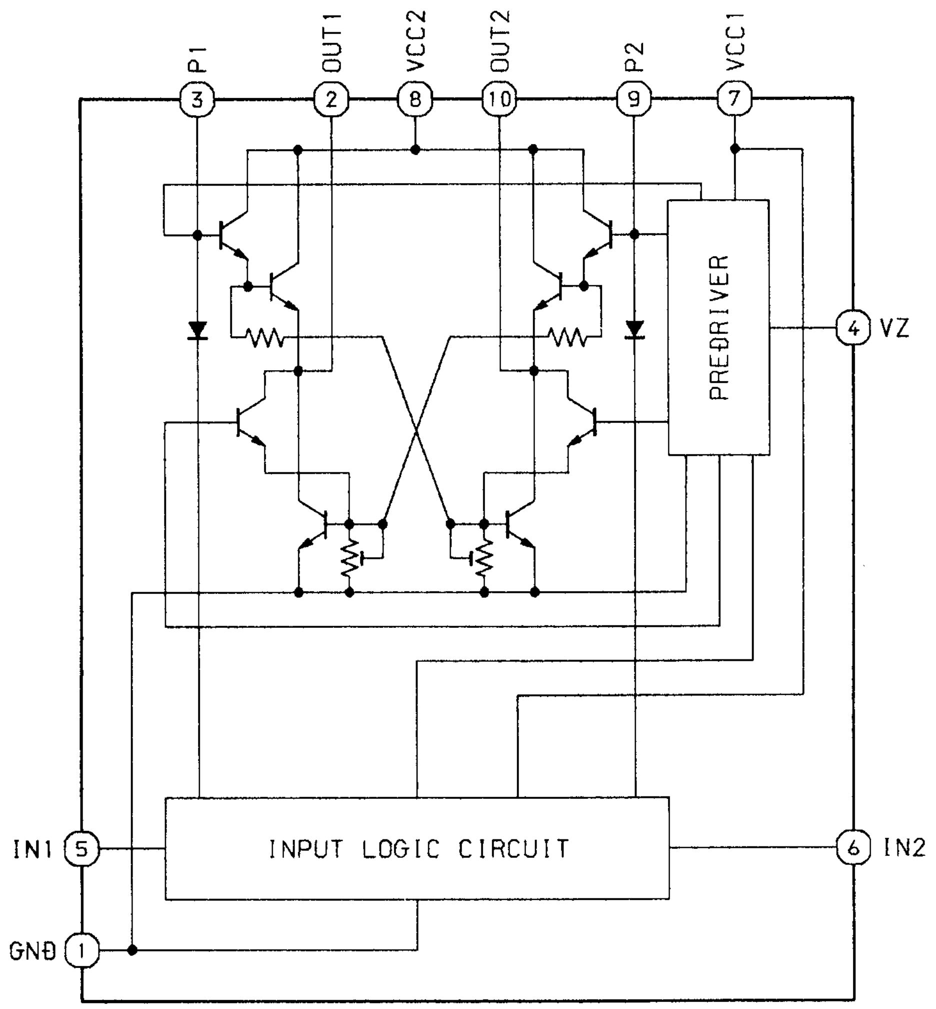

28
27
26
25
24
23
22
21
20
19
18
17
16
15
VCC
VCC
D.BUF
D.BUF
D.BUF
D.BUF
10K
10K
10K
10K
10K
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
REGU-LATOR
10K
T.S.D
50K
DRIVER MUTE
50K
10K
10K
10K
10K
D.BUF
D.BUF
D.BUF
D.BUF
1
2
3
4
5
6
7
8
9
10
11
12
13
14

T.S.D:THERMAL SHUT DOWN
D.BUF:DRIVER BUFFER

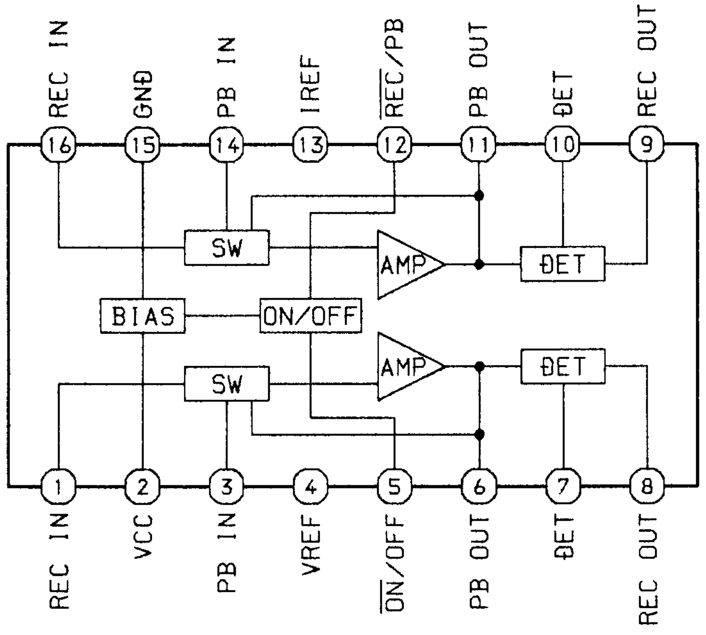
IC,CXA1332S


LINE IN (L)
PB IN (L)
MPX OUT (L)
MPX IN (L)
DOLBY OFF/B/C
LINE OUT (L)
SSK IN (L)
VF IN (L)
SSK (L)
VCT1
TCH (L)
TCL (L)
REC OUT (L)
VCTO
VCC
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ATT
MOA
HLS
HDET
LDET
LLS
VCC
MODE CONTROL
HLS
HDET
LDET
LLS
MOA
IREF
ATT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
LINE IN (R)
PB IN (R)
MPX OUT (R)
MPX IN (R)
REC/PB
LINE OUT (R)
SSK IN (R)
VF IN (R)
SSK (R)
VCT2
TCH (R)
TCL (R)
REC OUT (R)
IREF
GND

IC,LB1641

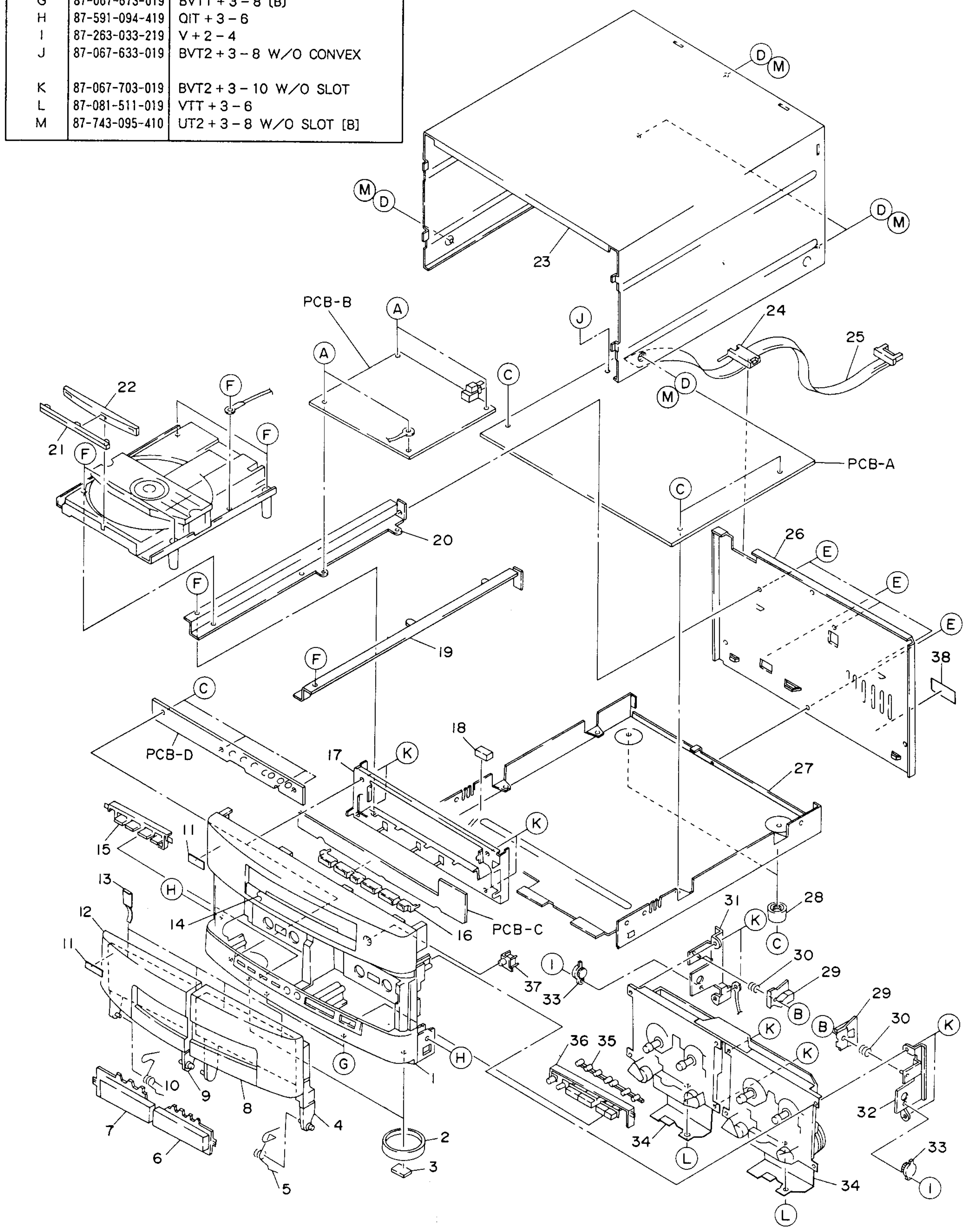

P1
OUT1
VCC2
OUT2
P2
VCC1
3
2
8
10
9
7
PREDRIVER
4
VZ
IN1
5
INPUT LOGIC CIRCUIT
6
IN2
GND
1

IC,HA12134A


REC IN
GND
PB IN
IREF
REC/PB
PB OUT
DET
REC OUT
16
15
14
13
12
11
10
9
SW
AMP
DET
BIAS
ON/OFF
AMP
DET
SW
1
2
3
4
5
6
7
8
REC IN
VCC
PB IN
VREF
ON/OFF
PB OUT
DET
REC OUT

EXPLODED VIEW – 1 (FD – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-777-019	BVTT + 3 – 6 W/CONVEX (B)
B	87-081-808-019	PW1.7 – 3.5 – 0.25
C	87-067-579-019	BVT2 + 3 – 8 W/O SLOT
D	87-067-641-019	UTT2 + 3 – 8 W/O SLOT (B)
E	87-067-660-019	BVT2 + 3 – 8 W/O SLOT (B)
F	87-067-688-019	BVTT + 3 – 6
G	87-067-673-019	BVTT + 3 – 8 (B)
H	87-591-094-419	QIT + 3 – 6
I	87-263-033-219	V + 2 – 4
J	87-067-633-019	BVT2 + 3 – 8 W/O CONVEX
K	87-067-703-019	BVT2 + 3 – 10 W/O SLOT
L	87-081-511-019	VTT + 3 – 6
M	87-743-095-410	UT2 + 3 – 8 W/O SLOT [B]



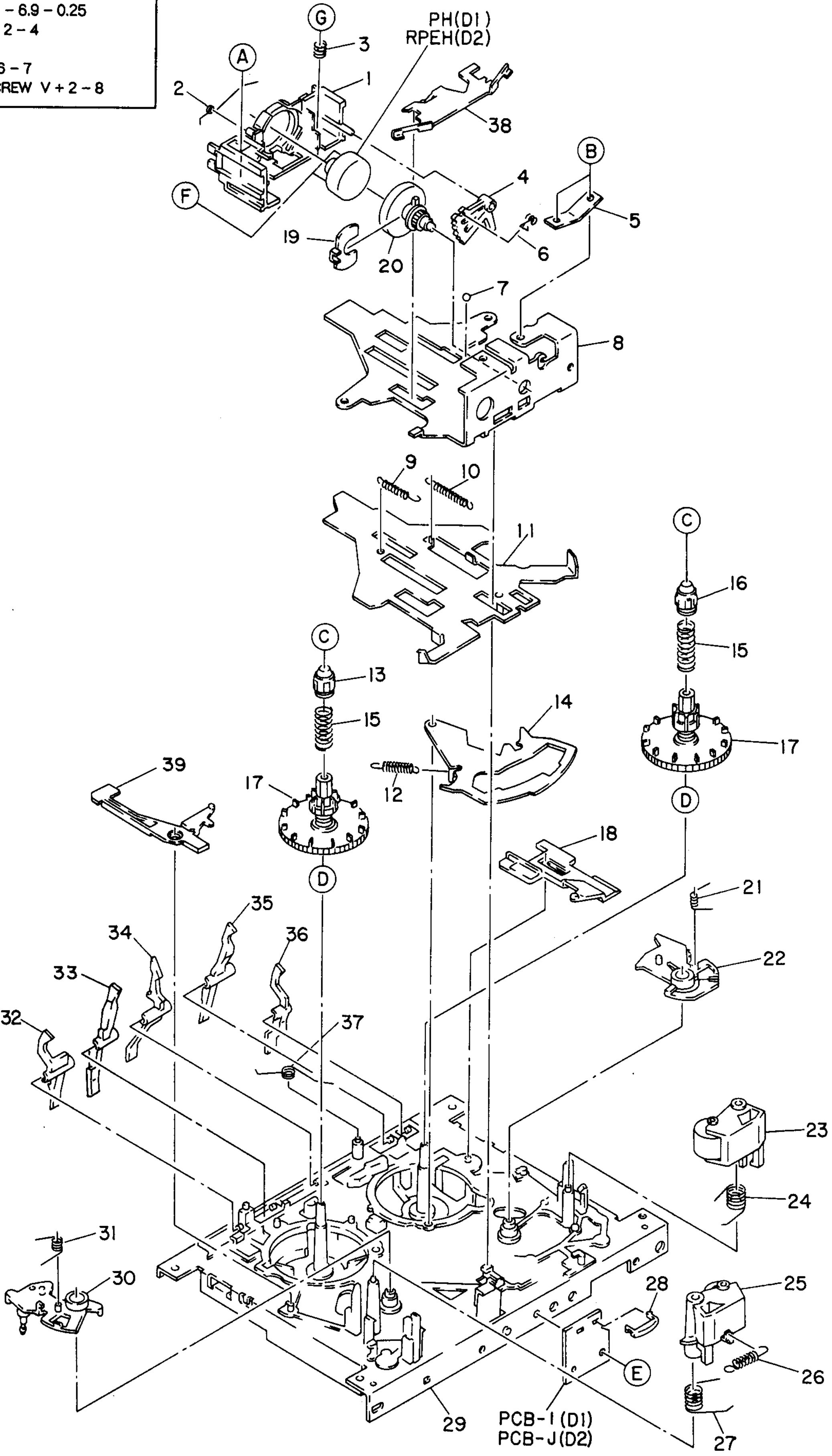
MECHANICAL PARTS LIST (FD – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★81-MV3-002-019	CABINET, FRONT (B) (YNE)	※	1
	1-1	★81-MV3-001-019	CABINET, FRONT (B) (Y, YJ)	※	1
	1-1	★81-MV3-081-019	CABINET, FRONT (B) (YHS)	※	1
	1-1	★81-MV3-023-019	CABINET, FRONT (B) (YK)	※	1
	1-1	★81-MV3-061-119	CABINET, FRONT (N) (YNE)	※	1
	1-1	★81-MV3-047-019	CABINET, FRONT (N) (YJ)	※	1
	1-1	★81-MV3-071-019	CABINET, FRONT (N) (YU)	※	1
	1-1	★81-MV3-062-119	CABINET, FRONT (N) (YK)	※	1
	1-2	★81-MT3-017-019	RING, FOOT (B)		2
	1-2	★81-MT3-052-019	RING, FOOT (N)		2
	1-3	★80-VT1-202-010	FELT,12.5 – 15.5 – 2		2
	1-4	★81-MV3-004-019	BOX, CASSETTE R (B)	※	1
	1-4	★81-MV3-053-019	BOX, CASSETTE R (N)	※	1
	1-5	★81-MV3-212-019	T – SPRING, EJECT R	※	1
	1-6	★81-MV3-020-019	WINDOW, BOX R	※	1
	1-7	★81-MV3-019-019	WINDOW, BOX L	※	1
	1-8	★81-MV3-026-019	PANEL, CASSETTE R (B) (EXCEPT FOR YHS)	※	1
	1-8	★81-MV3-083-019	PANEL, CASSETTE R (B) (YHS)	※	1
	1-8	★81-MV3-074-019	PANEL, CASSETTE R (N) (EXCEPT FOR YJ)	※	1
	1-8	★81-MV3-049-019	PANEL, CASSETTE R (N) (YJ)	※	1
	1-9	★81-MV3-003-019	BOX, CASSETTE L (B)	※	1
	1-9	★81-MV3-052-019	BOX, CASSETTE L (N)	※	1
	1-10	★81-MV3-211-019	T – SPRING, EJECT L	※	1
	1-11	★81-MX4-032-019	BADGE, AIWA		2
	1-12	★81-MV3-025-019	PANEL, CASSETTE L (B) (EXCEPT FOR YHS)	※	1
	1-12	★81-MV3-082-019	PANEL, CASSETTE L (B) (YHS)	※	1
	1-12	★81-MV3-073-019	PANEL, CASSETTE L (N) (EXCEPT FOR YJ)	※	1
	1-12	★81-MV3-048-019	PANEL, CASSETTE L (N) (YJ)	※	1
	1-13	★80-CD3-218-110	P – SPRING, CASSETTE		4
	1-14	★81-MV3-018-019	WINDOW, DISPLAY (B) (Y, YJ)	※	1
	1-14	★81-MV3-018-019	WINDOW, DISPLAY (N) (YJ)	※	1
	1-14	★81-MV3-021-019	WINDOW, DISPLAY (B) (YNE, YK)	※	1
	1-14	★81-MV3-021-019	WINDOW, DISPLAY (N) (YNE, YK, YU)	※	1
	1-14	★81-MV3-085-019	WINDOW, DISPLAY (B) (YHS)	※	1
	1-15	★81-MV3-014-019	KEY, DUBB	※	1
	1-16	★81-MV3-204-019	GUIDE, LED INDICATION	※	1
	1-17	★81-MV3-203-019	HOLDER, P.C.B FR	※	1
	1-18	★87-063-163-019	CUSHION, G 15 – 10 – 7		1
	1-19	★81-MV3-202-019	HOLDER, P.C.B CD R	※	1
	1-20	★81-MV3-201-019	HOLDER, P.C.B CD L	※	1
	1-21	★81-MV3-016-019	COVER, CD	※	1
	1-22	★81-MV3-017-019	PANEL, TRAY	※	1
	1-23	★81-MV3-043-019	CABINET, STEEL (B) (YNE, YK)	※	1
	1-23	★81-MT3-002-019	CABINET, STEEL (B) (Y, YJ, YHS)		1
	1-23	★81-MV3-065-018	CABINET, STEEL (N) (YNE, YK)	※	1
	1-23	★81-MV3-050-019	CABINET, STEEL (N) (YJ, YU)	※	1
	1-24	★89-VT5-202-010	BUSHING, CORD		1
	1-25	★81-MV3-626-010	CORD, FG 15P	※	1
	1-26	★81-MV3-080-019	PANEL, REAR (B) (Y)	※	1
	1-26	★81-MV3-011-019	PANEL, REAR (B) (YNE)	※	1
	1-26	★81-MV3-022-019	PANEL, REAR (B) (YJ)	※	1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-26	★81-MV3-079-019	PANEL, REAR [B] (YHS)	※	1
	1-26	★81-MV3-012-019	PANEL, REAR [B] (YK)	※	1
	1-26	★81-MV3-063-019	PANEL, REAR [N] (YNE)	※	1
	1-26	★81-MV3-058-019	PANEL, REAR [N] (YJ)	※	1
	1-26	★81-MV3-072-019	PANEL, REAR [N] (YU)	※	1
	1-26	★81-MV3-064-019	PANEL, REAR [N] (YK)	※	1
	1-27	---	CHASSIS, MAIN		1
	1-28	★87-085-223-019	FOOT, H9		2
	1-29	★80-CD3-233-010	PLATE, LOCK		2
	1-30	★80-MV3-210-110	C – SPRING, LOCK (Y)		2
	1-30	★80-MV3-218-019	C – SPRING, LOCK (EXCEPT FOR Y)		2
	1-31	★80-MV3-201-019	LOCK HOLDER ASSY 1		1
	1-32	★80-MV3-204-019	LOCK HOLDER ASSY 2		1
	1-33	★87-063-151-010	DAMPER, OIL 37		2
	1-34	★81-MV3-215-010	SHIELD, DECK	※	2
	1-35	★81-MV3-205-119	GUIDE, LED OPE	※	1
	1-36	★81-MV3-015-010	KEY, OPE	※	1
	1-37	★81-MV3-013-019	KEY, CD [B]	※	1
	1-37	★81-MV3-054-019	KEY, CD [N]	※	1
	1-38	★81-MT3-027-018	LABEL, DBP [B, N] (YNE)		1

EXPLODED VIEW – 2 (FD – N55)

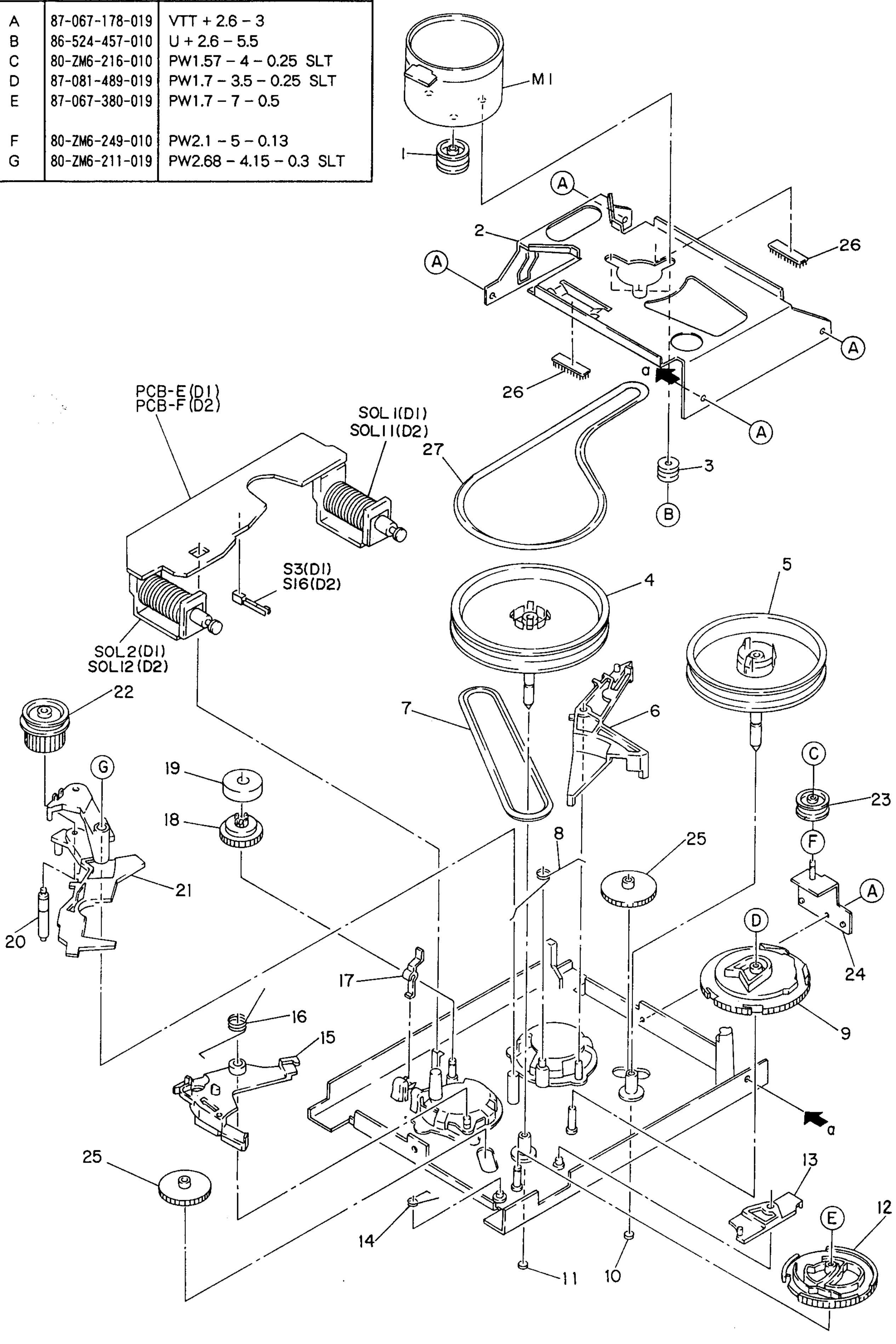
REF. NO.	PART NO.	DESCRIPTION
A	87-263-033-110	V + 2 – 4
B	80-ZM6-251-010	SCREW S AZIMUTH 2
C	86-524-418-010	VFT2 + 1.4 – 5
D	87-067-825-019	PW4.1 – 6.9 – 0.25
E	87-067-174-010	VTT + 2 – 4
F	80-ZM6-207-019	V + 1.6 – 7
G	86-575-363-210	S – SCREW V + 2 – 8


G
3
PH(D1)
RPEH(D2)
A
2
1
38
B
4
5
F
19
20
6
7
8
9
10
C
11
16
15
C
13
15
14
17
12
17
39
D
D
18
21
35
34
36
22
33
37
32
23
24
31
30
28
25
26
29
PCB-I(D1)
PCB-J(D2)
E
27

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	★86-575-288-510	GUIDE, TAPE		1
	2-2	★86-575-310-219	T - SPRING, HEAD		1
	2-3	★86-541-318-119	C - SPRING, AZIMUTH		1
	2-4	★86-575-290-310	GEAR, SEGMENT		1
	2-5	★86-575-343-110	P - SPRING, AZIMUTH 2		1
	2-6	★80-ZM6-229-110	T - SPRING, GEAR SEG 2		1
	2-7	★87-073-018-019	BALL, STEEL 1.588		1
	2-8	★86-575-311-410	CHASSIS, HEAD		1
	2-9	★80-ZM6-268-019	E - SPRING, SLIDE 3		1
	2-10	★86-575-226-019	E - SPRING, CHASSIS HEAD		1
	2-11	★86-535-215-410	SLIDE PLATE ASSY		1
	2-12	★86-535-284-119	E - SPRING, DIRECTION LEVER		1
	2-13	★86-524-218-219	STOPPER, REEL TABLE S		1
	2-14	★86-535-218-310	DIRECTION LEVER ASSY		1
	2-15	★86-535-293-019	C - SPRING, REEL TABLE		2
	2-16	★86-524-233-219	STOPPER, REEL TABLE T		1
	2-17	★80-ZM6-254-110	REEL GEAR ASSY L		2
	2-18	★86-575-345-210	LEVER, SWITCH 2		1
	2-19	★86-575-305-010	PLATE, HOUSING		1
	2-20	★86-575-306-910	HOLDER, HOUSING		1
	2-21	★86-535-282-019	T - SPRING, PLAY GEAR F		1
	2-22	★86-535-238-310	LEVER, PLAY F		1
	2-23	86-535-226-310	PINCH LEVER ASSY F		1
	2-24	★86-575-222-110	T - SPRING, PINCH F		1
	2-25	86-535-228-410	PINCH LEVER ASSY R		1
	2-26	★86-575-339-019	E - SPRING, PINCH 22		1
	2-27	★86-575-341-110	T - SPRING, PINCH L		1
	2-28	---	HOLDER, WIRE 2		1
	2-29	★80-ZM6-201-810	MECHANISM CHASSIS ASSY		1
	2-30	★86-535-239-110	LEVER, PLAY R		1
	2-31	★86-535-283-019	T - SPRING, PLAY GEAR R		1
	2-32	★86-575-322-110	LEVER, REC A (D2)		1
	2-33	★86-575-325-210	LEVER, METAL (D2)		1
	2-34	★86-575-324-310	LEVER, CASSETTE		1
	2-35	★86-575-327-210	LEVER, CROM		1
	2-36	★86-575-323-010	LEVER, REC B (D2)		1
	2-37	★80-ZM6-206-019	T - SPRING, CASSETTE		1
	2-38	★86-575-347-110	P - SPRING, HEAD 2		1
	2-39	★86-535-242-210	LEVER, EJECT SAFETY		1

EXPLODED VIEW – 3 (FD – N55)

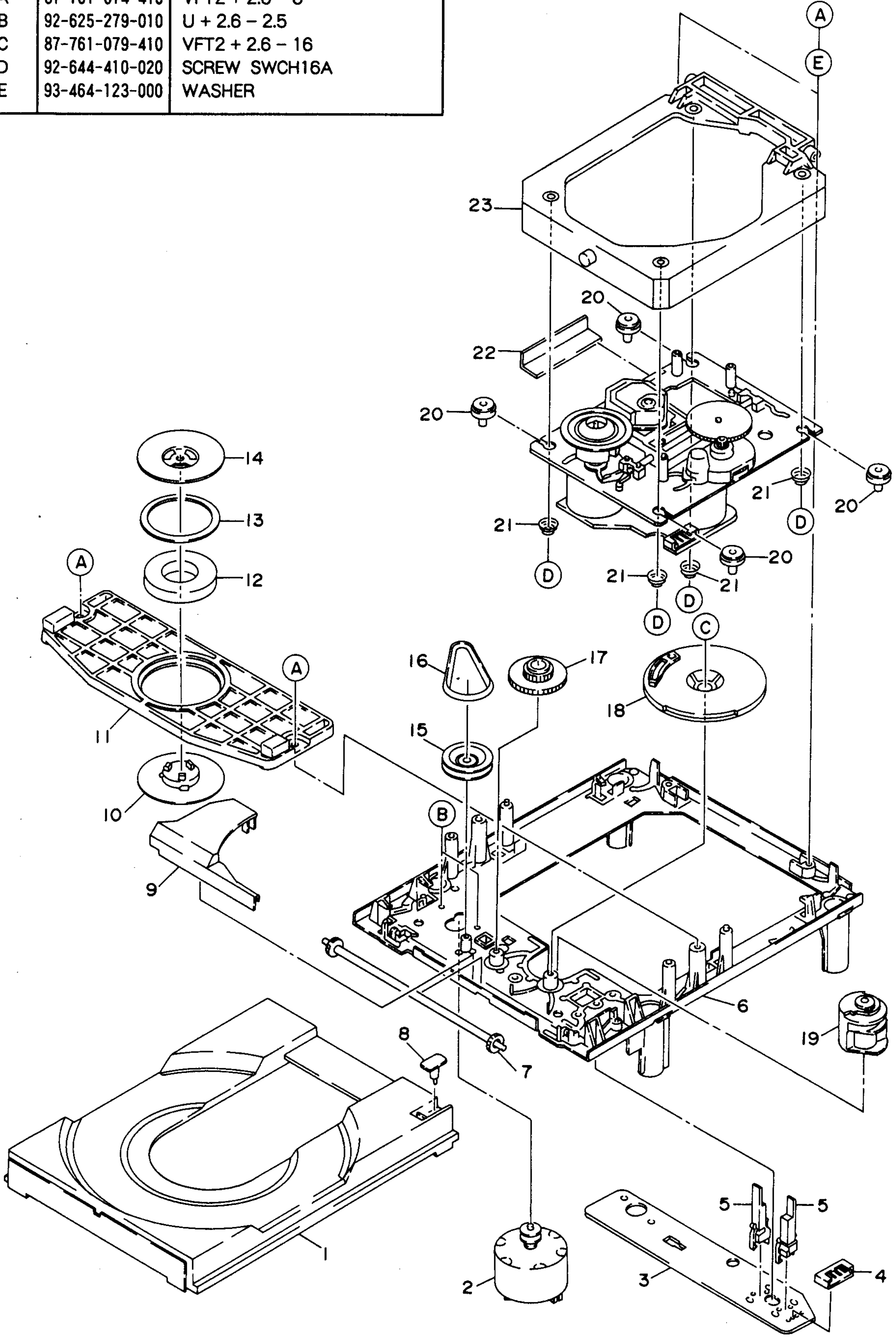
REF. NO.	PART NO.	DESCRIPTION
A	87-067-178-019	VTT + 2.6 – 3
B	86-524-457-010	U + 2.6 – 5.5
C	80-ZM6-216-010	PW1.57 – 4 – 0.25 SLT
D	87-081-489-019	PW1.7 – 3.5 – 0.25 SLT
E	87-067-380-019	PW1.7 – 7 – 0.5
F	80-ZM6-249-010	PW2.1 – 5 – 0.13
G	80-ZM6-211-019	PW2.68 – 4.15 – 0.3 SLT


M1
1
A
2
26
a
3
B
27
PCB-E(D1)
PCB-F(D2)
SOL1(D1)
SOL11(D2)
S3(D1)
S16(D2)
SOL2(D1)
SOL12(D2)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
C
D
E
F
G

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-1	★81-ZM7-204-010	PULLEY, MOTOR 4		1
	3-2	★81-ZM7-201-110	HOLDER, MOTOR 3		1
	3-3	★86-513-441-210	COLLAR		3
	3-4	★80-ZM6-203-310	FLYWHEEL ASSY R1 (D1)		1
	3-4	★80-ZM6-262-110	FLYWHEEL ASSY R2 (D2)		1
	3-5	80-ZM6-208-310	FLYWHEEL ASSY L1		1
	3-6	★86-535-231-510	LEVER, TRIGGER PLAY		1
	3-7	80-ZM6-227-110	BELT, SQ 1.2 - 140		1
	3-8	★80-ZM6-205-110	T - SPRING, MAIN		1
	3-9	★86-575-312-210	CAM, MAIN		1
	3-10	★80-ZM6-243-019	SHEET 1.75 - 3.6 - 0.5 SLT		1
	3-11	★80-ZM6-242-019	SHEET 1.95 - 3.6 - 0.5 SLT		1
	3-12	★80-ZM6-219-210	CAM, FR MK 2 2M		1
	3-13	★86-575-229-210	LEVER, PAUSE B		1
	3-14	★86-535-291-210	T - SPRING, FR CAM		1
	3-15	★86-535-230-510	LEVER, TRIGGER FR		1
	3-16	★80-ZM6-220-019	T - SPRING, FR 2		1
	3-17	★86-575-326-310	LEVER, LINK		1
	3-18	★86-575-328-110	GEAR, IDLER		1
	3-19	★80-ZM6-217-010	MAGNET, RING 2		1
	3-20	★80-ZM6-222-110	SHAFT, FR PULLEY		1
	3-21	★80-ZM6-218-110	LEVER, FR 2		1
	3-22	★80-ZM6-272-010	GEAR, FR 2		1
	3-23	★80-ZM6-224-410	PULLEY, COUPLER (D1)		1
	3-24	★80-ZM6-213-110	HOLDER ASSY P (D1)		1
	3-25	★86-575-221-310	GEAR, PLAY		2
	3-26	★80-ZM6-230-019	SHEET, BELT		2
	3-27	★81-ZM7-202-110	BELT, SQ 1.3 - 262 (D2)		1
	3-27	★81-ZM7-203-110	BELT, SQ 1.3 - 274 (D1)		1

EXPLODED VIEW – 4 (FD – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-761-074-410	VFT2 + 2.6 – 8
B	92-625-279-010	U + 2.6 – 2.5
C	87-761-079-410	VFT2 + 2.6 – 16
D	92-644-410-020	SCREW SWCH16A
E	93-464-123-000	WASHER


A
E
23
20
22
20
14
13
A
12
21
21
20
20
D
D
21
21
D
D
C
A
16
17
18
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B
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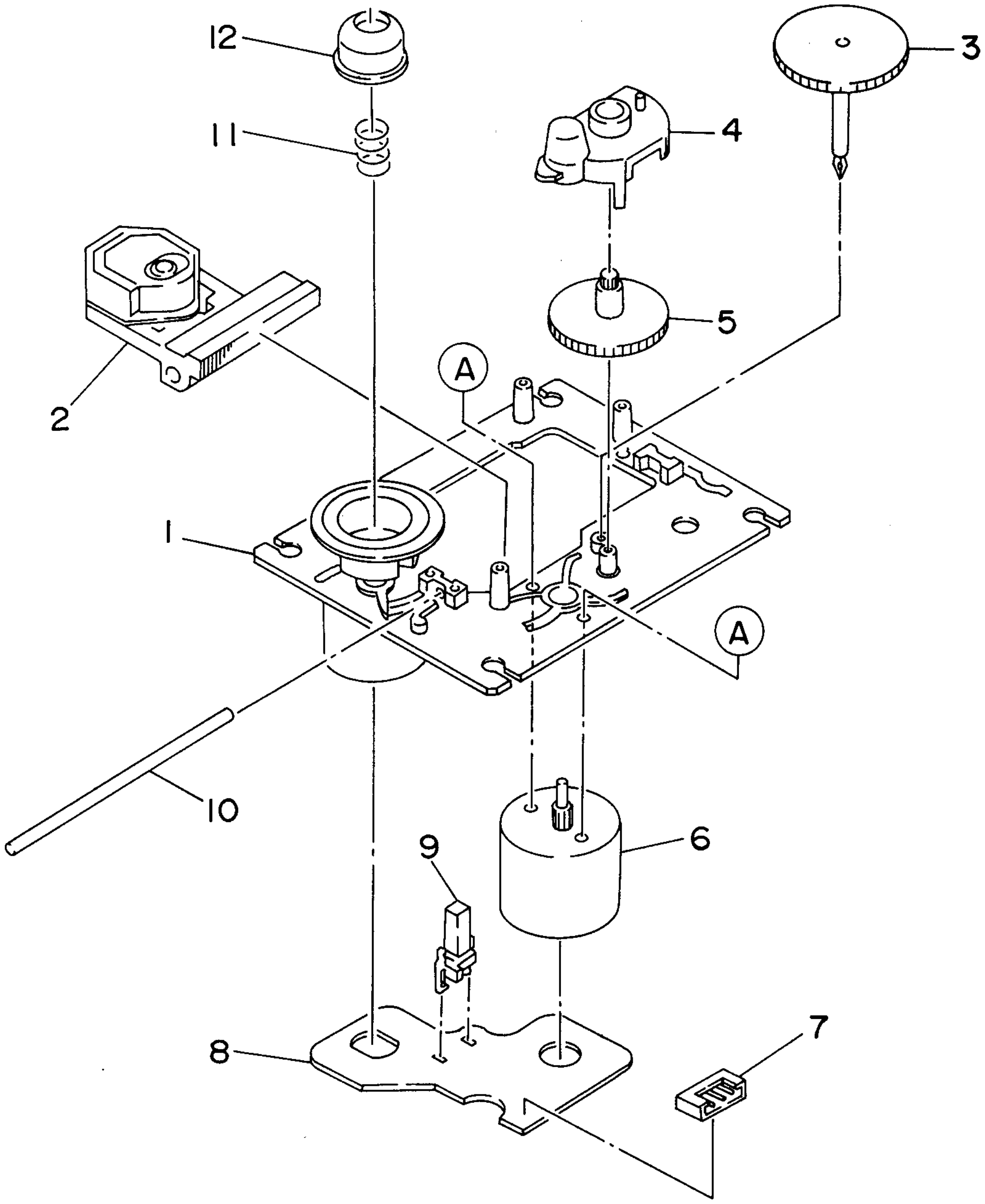
3

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	4-1	★92-625-288-040	TRAY		1
	4-2	★9X-262-511-710	LOADING MOTOR ASSY		1
	4-3	---	PWB, LOADING		1
	4-4	★91-564-721-110	CONNECTOR 5P		1
	4-5	91-572-086-110	SWITCH, LEAF		2
	4-6	---	CHASSIS, MAIN		1
	4-7	★92-625-275-030	GEAR, TRAY		1
	4-8	---	SW PIN		1
	4-9	★92-625-282-020	COVER, GEAR		1
	4-10	★92-625-286-030	PULLEY, CHUCKING		1
	4-11	★92-625-284-040	PLATE, CHUCKING		1
	4-12	★91-452-493-210	MAGNET		1
	4-13	★92-625-541-010	DAMPER		1
	4-14	★92-625-277-010	YOKE, CHUCK		1
	4-15	★92-625-276-010	PULLEY, LOADING		1
	4-16	★93-653-387-000	BELT, LM		1
	4-17	★92-625-274-020	GEAR, MEDDLE		1
	4-18	★92-625-285-030	GEAR, DRIVE		1
	4-19	★92-625-283-020	CAM, CONTROL		1
	4-20	★92-625-278-010	INSULATOR		4
	4-21	★92-625-280-010	SPRING		4
	4-22	---	PLATE, PUSH		1
	4-23	---	SUB CHASSIS ASSY W/INSU SHAFT		1

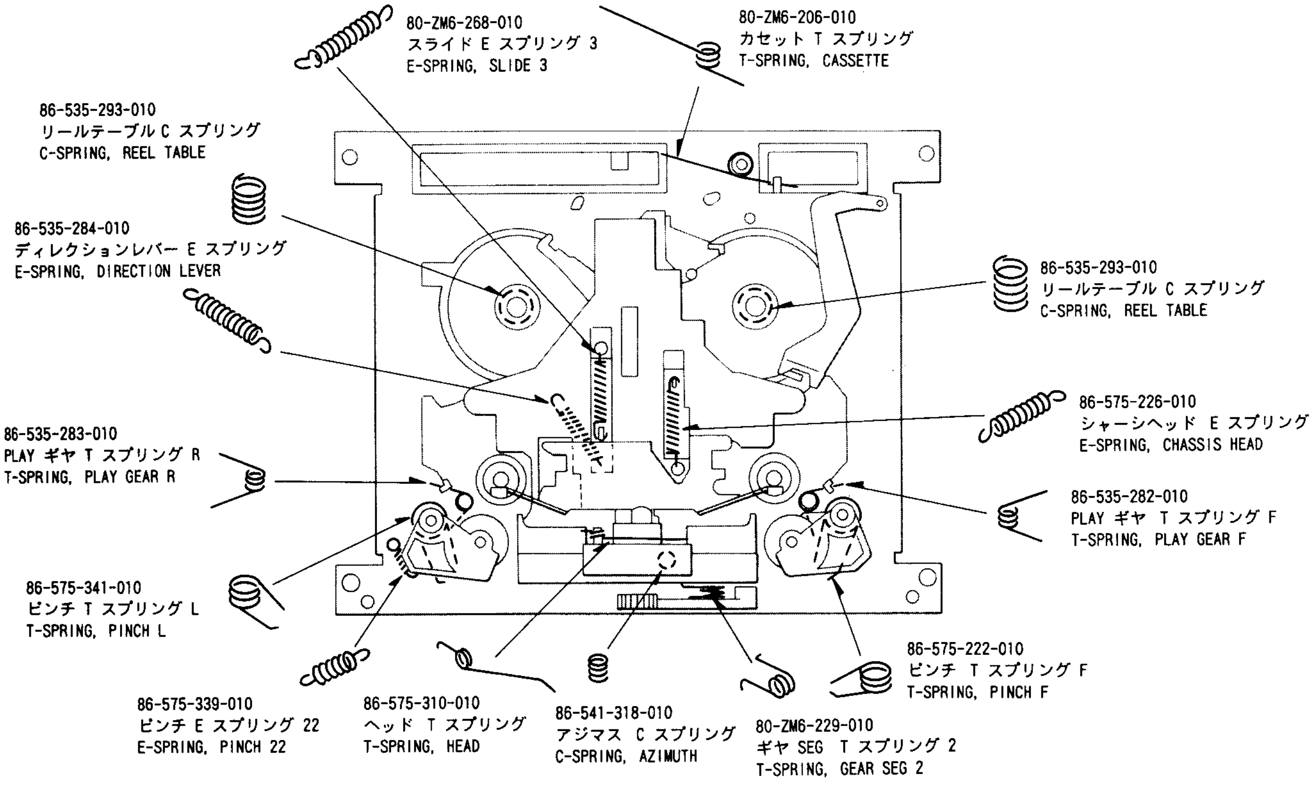
EXPLODED VIEW – 5 (FD – N55)

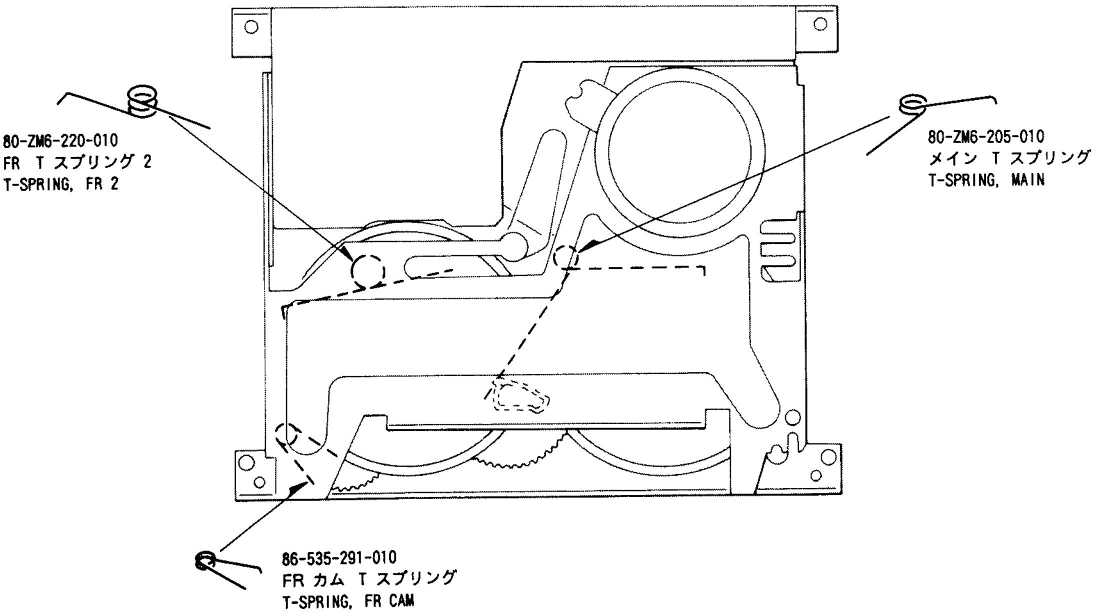
REF. NO.	PART NO.	DESCRIPTION
A	87-261-032-210	V + 2 – 3



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	5-1	★9X-262-513-310	T.T CHASSIS ASSY W/MOTOR		1
	5-2	98-848-127-11Z	PICK UP KSS – 210A		1
	5-3	★92-625-188-020	GEAR, A		1
	5-4	★92-625-544-010	COVER		1
	5-5	---	GEAR, B		1
	5-6	★9X-262-513-210	SLED MOTOR ASSY		1
	5-7	★91-564-722-110	CONNECTOR 6P		1
	5-8	---	PWB, MOTOR		1
	5-9	91-572-085-110	SWITCH, LEAF LIMIT		1
	5-10	★94-917-565-010	SHAFT, SLED		1
	5-11	★92-625-191-010	SPRING, COMPRESSION		1
	5-12	★92-625-187-010	RING, CENTER		1

SPRING APPLICATION (FD－N55)


80-ZM6-268-010
スライド E スプリング 3
E-SPRING, SLIDE 3
80-ZM6-206-010
カセット T スプリング
T-SPRING, CASSETTE
86-535-293-010
リールテーブル C スプリング
C-SPRING, REEL TABLE
86-535-284-010
ディレクションレバー E スプリング
E-SPRING, DIRECTION LEVER
86-535-293-010
リールテーブル C スプリング
C-SPRING, REEL TABLE
86-575-226-010
シャーシヘッド E スプリング
E-SPRING, CHASSIS HEAD
86-535-283-010
PLAY ギヤ T スプリング R
T-SPRING, PLAY GEAR R
86-535-282-010
PLAY ギヤ T スプリング F
T-SPRING, PLAY GEAR F
86-575-341-010
ピンチ T スプリング L
T-SPRING, PINCH L
86-575-222-010
ピンチ T スプリング F
T-SPRING, PINCH F
86-575-339-010
ピンチ E スプリング 22
E-SPRING, PINCH 22
86-575-310-010
ヘッド T スプリング
T-SPRING, HEAD
86-541-318-010
アジマス C スプリング
C-SPRING, AZIMUTH
80-ZM6-229-010
ギヤ SEG T スプリング 2
T-SPRING, GEAR SEG 2


80-ZM6-220-010
FR T スプリング 2
T-SPRING, FR 2
80-ZM6-205-010
メイン T スプリング
T-SPRING, MAIN
86-535-291-010
FR カム T スプリング
T-SPRING, FR CAM

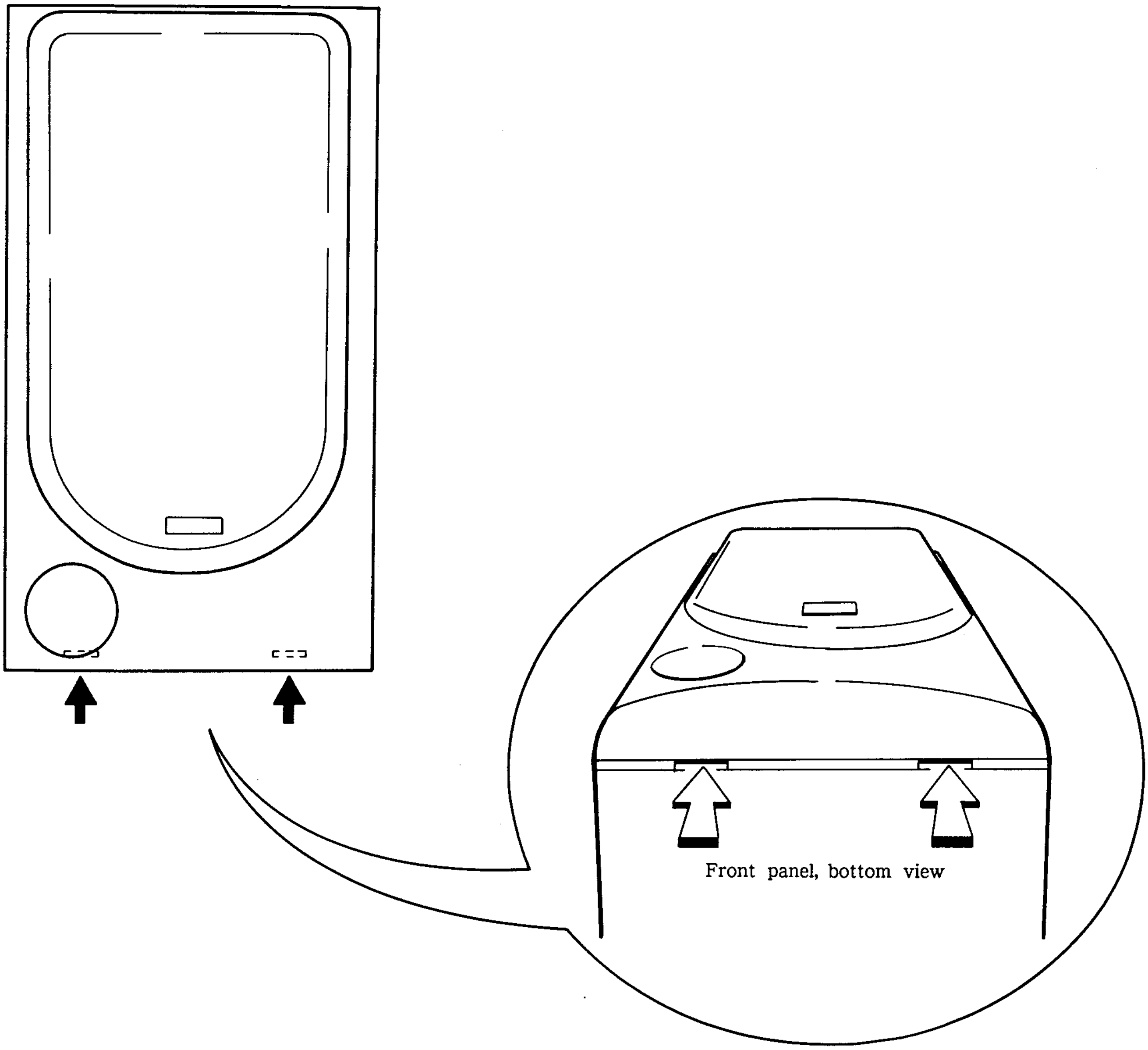
MODEL NO.

SX – N55

DISASSEMBLY INSTRUCTIONS (SX – N55)

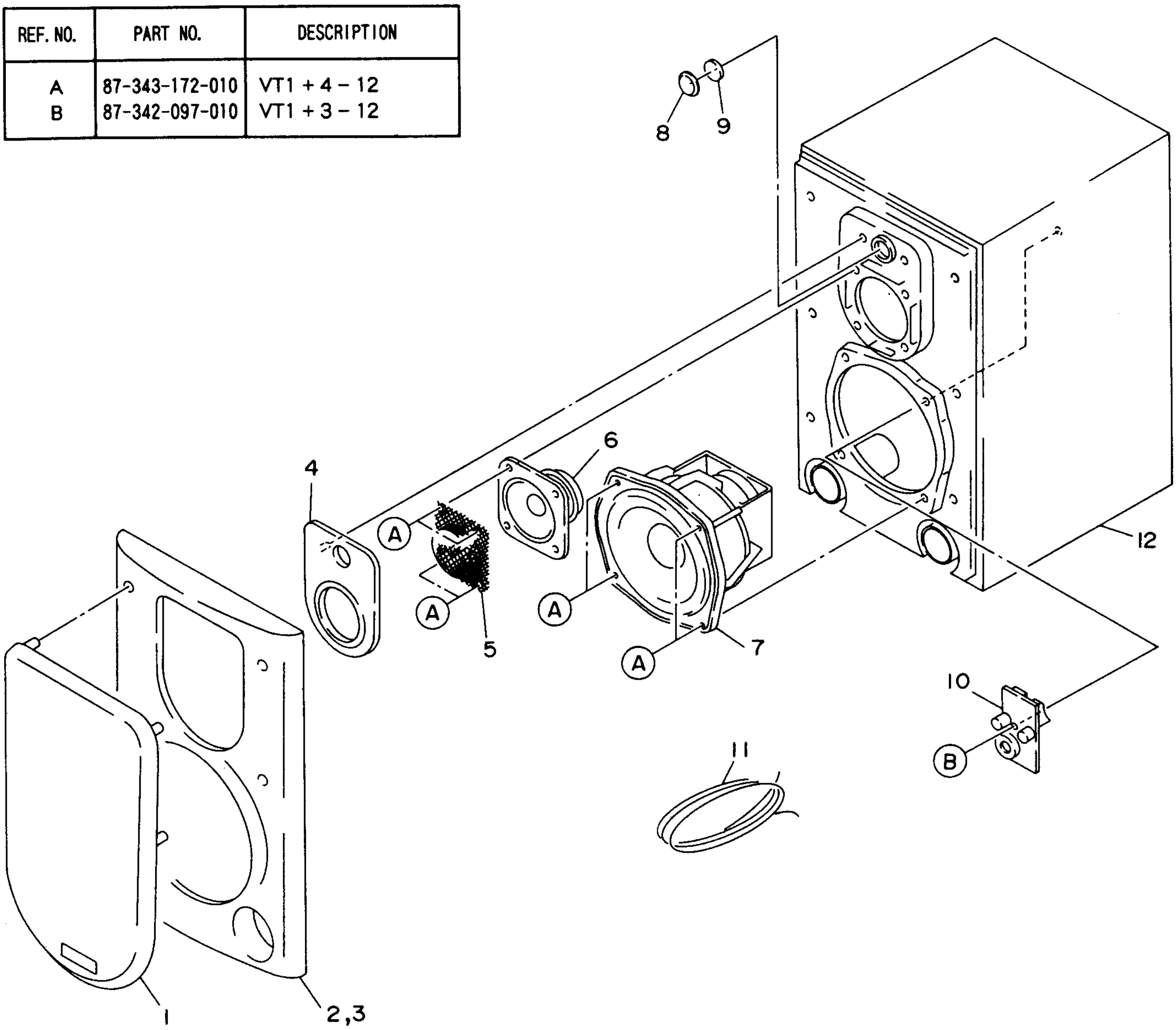
- Insert a flat-bladed screwdriver into the position indicated by the arrows (shown in the below figure) and remove the front panel and tweeter. Remove the screws of each speaker unit and then remove the speaker units.

- SX-N55 (3 WAY SPEAKER • SYSTEM)



EXPLODED VIEW (SX – N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-343-172-010	VT1 + 4 – 12
B	87-342-097-010	VT1 + 3 – 12



■ SPEAKER LIST (SX – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-MSD-009-010	GRILL FRAME ASSY	※	2
	2	★81-MSD-004-010	PANEL, FRONT (L)	※	1
	3	★81-MSD-005-010	PANEL, FRONT (R)	※	1
	4	★81-MSD-006-010	PANEL, TWEETER	※	2
	5	★81-MSD-007-010	MESH, TWEETER	※	2
	6	★81-MSD-603-010	SPEAKER, TWEETER	※	2
	7	★81-MSD-602-010	SPEAKER, WOOFER	※	2
	8	★81-MSD-011-010	CAP	※	2
	9	81-MSE-610-010	CERAMIC		2
	10	★81-MSD-611-010	TERMINAL ASSY	※	2
	11	83-096-614-010	CORD, SPEAKER		2
	12	---	CABINET		2